



Industrial Design Graduan Exhibition
2003

imagine

imagine create communicate



Greetings and welcome to imagine. Who are we? Our logo is actually a representation of a person surrounded by a field of bright ideas. Throughout the field of industrial design as a team and as individuals we are challenged with the imagination creation and communication of ideas. We hope you enjoy our exhibition and we look forward to hear from you in the future.

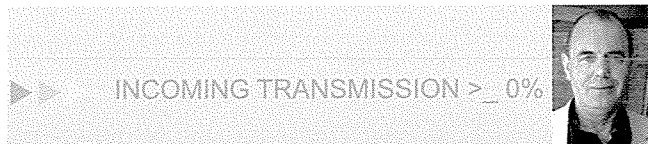
Industrial Design Graduate Exhibition

2003

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TITLE:- THE DEAN



Peter

Murphy

A MESSAGE FROM THE DEAN

Good design matters. The objects in our daily lives embody increasingly sophisticated design qualities. Well designed objects offer us greater functionality and aesthetic pleasure and as our desires become more sophisticated, the 'design premium' becomes more important.

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We are becoming more demanding as consumers, therefore producers who look to meet our needs, or create our wants, must use design. Not only are the young designers whose work is featured in this catalogue contributing to their own quality of life, but also to the national interest - whether that be in Australia or elsewhere.



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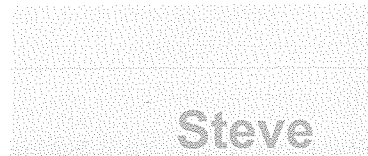
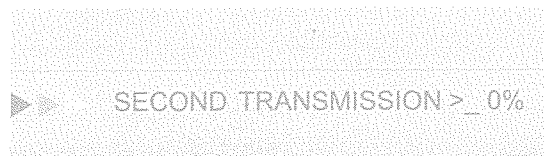


INITATION OF SECOND PHASE

From a national economic point of view, being able to effectively compete on world product markets and with imported products on domestic markets is central to the welfare of Australians. As such, they are facing the prospect of very rewarding careers.

imagine

TITLE:- THE HEAD



UNSW DESIGN SCHOOL

Ward

The final year student projects presented in this catalogue demonstrate the breadth of industrial design and its relevance to many areas of life. Projects this year show innovative responses to, for example, changing patterns of lifestyle, global needs and emerging technology. The designs meet identified needs and seek to do so with some extra qualities that bring enjoyment and satisfaction in their use.

The design outcomes presented here are built upon a major investigation and each product displayed is backed by a report establishing the need for the product, its technical and commercial feasibility, and its suitability to the intended users. The design process has included exploration of concepts, evaluation, testing and detail design development. Students have demonstrated well-developed skills and the capacity to connect ideas with knowledge from many areas to ultimately determine every aspect of the final design. It has been exciting to see these students make discoveries and extend their capability over the four years of their program of study at UNSW.

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(In addition imagine also wishes to
acknowledge the following mentors)

Phillippa Carnemolla
Andrew Fowkes
Sinclair Park
Bernabei, Rina



TITLE:- THE MENTORS



Berto
Pandolfo



Jonathan
Talbot



Lance
Green



Oya
Demirbilek



Mariano
Ramirez

In getting to this point the students have completed a program of study that integrates design practice with marketing, sciences, engineering, manufacturing, commerce, history and theory. Their studies have given them skills and a framework for making creative, appropriate and responsible choices. They have had the benefits of a broad educational experience at UNSW and valued support from many organisations and individuals in industry who recognise the importance of supporting the education of future designers.



These graduands now presenting their work are part of a new generation of designers ready to make their contribution to the community through industry and the profession. On behalf of the committed team of both full-time and casual staff who teach in the Industrial Design program at UNSW, I congratulate them on their achievement in successfully completing their studies and their final projects. We look forward to hearing of their further achievements and seeing the results of their endeavours.

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imagine

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PREPARATION_LOADED

SECTOR1 _> UNLOCKED



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90% COMPLETE



SECTOR 3 _> UNLOCKED

WARNING_ FINAL GATE HAS BEEN BREACHED

imagine
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01 >

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"...Design is not a luxury, it's a necessity. Radical approach, logical solutions..."

MOST OF THE TIME, FATALITIES IN FIRE ACCIDENTS ARE THE RESULT OF INTOXICATION (NARCOSIS) AND INABILITY TO WITHSTAND HIGH HEAT CONDITIONS.

THIS FIRE SURVIVAL MASK PROTECTS ONE FROM THE ABOVE CONDITIONS DURING EGRESS OR WHILE WAITING FOR RESCUE.

"BUYING" CRITICAL TIME FOR RESCUERS, ESPECIALLY IN HIGH-RISE BUILDING FIRES.

RESEMBLANCE TO AN AUDIO HEADPHONE ALLOWS ONE TO EASILY KNOW HOW TO PUT IT ON, SIMILAR TO HOW A LIFE JACKET LOOKS LIKE AN ORDINARY JACKET.

IT FEATURES A CARBON IMPREGNATED SOFT FILTER, ABS MAIN STRUCTURE, POLYAMIDE FILM VISOR, HOOD & CAPE, CONVENIENT AND COMPACT STORAGE OPTIONS.

Safety Product

Manufacturing
IM, Flexible Moulding

Materials
Polyamide Film ABS



Fire Survival Respirator Mask with Cape



CATERS FOR SEVERAL HEAD SIZES WITH SLIDING BAND ADJUSTMENT ON HEADPHONE-LIKE LIGHTWEIGHT MAIN STRUCTURE

LEFT AND RIGHT OVER THE EARS HOUSING FOR COMFORTABLE WEARING WITH HOLES TO ENABLE LISTENING TO EMERGENCY INSTRUCTIONS

UNBUTTONING REAR POUCH RELEASES CAPE FOR SHIELDING FROM HEAT EFFECTS, SHORT CAPE LENGTH ENCOURAGES USER TO ADOPT LOW POSITION

02 >

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Alfred. .

"...The cure for boredom is curiosity. There is no cure for curiosity
(Ellen Parr) ..."

Rock fishing has the highest fatalities of any sport in New South Wales. In the nine year period between 1992 and 2000 there are 74 rock fishing fatalities. To reduce the increasing death toll, a rock fishing aid has been developed to protect rock fishermen from the risk of drowning and head injuries.

Soft shell helmet that houses triple density foam offers a lightweight cranium protection system. Injection molded floatation foam flexes as it conforms to different human built, maximizing

body movement during casting. Double strap that hugs the upper and lower region of the back helps to reduce ride up in water. A feature that is often neglected in conventional life jacket.

In all R-AID encompasses the needs and wants of rock fishermen through better use of material and technology



Rock Fishing AID

Manufacturing Process
Injection Moulding

Materials
Ethyl Vinyl Acetate (EVA) ▶▶▶



R-AID



To suit different head sizes, removable triple density EVA cushions can be adjusted via two bungee cords. The extended visor on its exterior shell provides shade and protection from harmful UV rays.

Grooved sections on the life jacket provides maximum flexibility required whilst rock fishing. High visibility color coupled with reflective tape helps search and rescue party to locate victim in water.

R-AID features a foolproof design that makes it easy to be worn. The exclusive single buckle system reduces the amount of work require to fasten the life jacket and reduces chance of missing a buckle.

03 >

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**Zainal Abidin
Aljunied**

"...To every complex problem is a simple solution, the bridge to simplicity is design..."

'Buttafly' is an ergonomically designed toilet seat that incorporates a simple adjustable height feature.

'Buttafly' grew on the research in anthropology, rehabilitation ergonomics and collapsible structures for a universal audience, although more specifically for the seniors and less-abled users.

Aesthetics has been a priority in the process of designing as the existing raised toilet seats (RTS)

have been complained to be stigmatizing.

Simplicity of usage is another high priority due to concerns raised from the seniors of the problems that the existing RTSs have.

'Buttafly' exceeds the capabilities of RTS in its simplicity and design.

'Buttafly', an adaptable toilet seat



Buttafly at its natural state for able-bodied users. A larger contoured surface for additional comfort. It can be flipped up and easily removed for cleaning.

A functional aesthetic detail of its 'feeler' acts as lever to 'fly' the seat to two different heights.

Detail of the pivot joint specially designed for easy access to cleaning. Structurally sound support designed for the 95th %tile.

Medical Product

Manufacture by

Gas Ass. Inj. Moulding

Materials

HDPE and Steel



04 >

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"...there is no good or bad, or right and wrong, it all depends on how you see it..."

The rationale of the game comprises the war battle scenario. The game is for two players, each player possess a castle and guards. The objective of the game is to guess the word between their opponents. Before the word guessing proceeds, players have to take turns to hunt down the guards by guessing the alphabet marked behind them in order to approach the castle

The game encourages children to learn vocabulary in a fun and exciting way. The game

requires guessing where luck sometime is important. This makes the game more interesting than a pure vocabulary knowing competition. Besides the need of luck for guessing, children are also encouraged to think logically to maximise the possibility of guessing correctly.

Alphabattle



The product is a media for this game. The priority of the design for this product is to enhance the war scenario for the game. Thus, the components of the product are according to the scenario.

These components included castle, alphabet piece, characters and the storage frames. Moreover, appearance is critical to this product.

It is not only expected that the war like decorations are illustrated on every component, but also to be adorable in term of the form in line to attract younger audiences. Hence, all the components are in cartoon style.

Word Game

Manufacturing Process
Injection Moulding

Material
ABS





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**Dennis
Cheevers ..**

"...my curiosity for design stems from my hands on approach to life. I love the technical challenges that industrial design brings..."

Rheumatoid Arthritis is not a disease limited to the elderly. It impacts lifestyle most significantly in the 20 to 40 y/o age group. As life is on its dynamic peak, these consumers require self sufficiency; to overcome their own problems and to provide for family or other dependants.

This potato peeler is designed to guarantee that basic necessities will not be an obstacle, allowing these users to focus on bigger challenges in life. Positive thinking is reflected in the transformation of a mundane kitchen object into

a splash of ease, fun and style.

An ergonomic push handle action, instead of a traditional grip handle, utilises the strongest part of the hand, not its joints. It facilitates the disabled through one hand operation, reducing pain and exertion.

A sophisticated mechanism, simple operation and low maintenance ensure that the task is well done.

FRONTLOADER



Step 1: Lifting the rear handle opens the clamping mechanism. Place a potato on the spike and close the handle.

Step 2: A Soft elastomer pad provides comfort and support while operating the cutting action. Pushing this lever turns and peels the potato

A clockwork of gears ensure mechanical advantage is achieved to minimise effort and increase efficiency in the peeling task.

Kitchen Aid

Manufacturer
chloroFORM

Materials
ABS, THERMOPLASTIC ELASTOMER





Helen Yun-Ju Chen. .

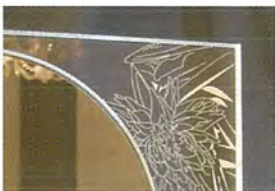
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NARCISSUS



Narcissus functions as a mirror and stands as an homage to the Greek legend of Narcissus. Narcissus, whose demise came about after his extreme devotion to his own reflection in a pond, refused to part with his reflection (whom he fell in love with) and he physically wasted away. The Greek gods took sympathy on him and turned his body into the Narcissus flower. The mirror replicates the pond which Narcissus stared into, and the decorative flowers beside the mirror are different breeds of the Narcissus flower family.

The mirror used in Narcissus is an observation mirror (one can see through one side while the other side stays reflective). On the mirror reflective side, individuals are free to admire themselves, while those on the other side are free to observe the self-admirer and determine whether such personal admiration is significant for self growth.

Look to see and be seen.



MIRROR

Production Level
LIMITED RUN

Materials
ACRYLIC

| OBSERVATION MIRROR



"My products are born to stimulate and tenderly play with people's minds...."

ii_NAUGHTY



ii_Naughty is a chair that functions in the corner of a room. The chair has been tilted (and stays tilted) into the corner and the front legs of the chairs are bent in such a way that the chair looks as if it relaxes in the corner and swings its legs in pleasure.

It is physically impossible to fit more than one person into the corner of a room. Hence the act of a person retracting into the corner of a room may be deemed on some level to be narcissistic. The sitter sits in the corner has full visual access to the rest of the room. It is here they are invited to devote time to self reflect / self thought / self obsess

I believe that it is healthy for one to indulge in a balanced diet of self obsession. Therefore my chair purposely is not designed for comfort (to limit the amount of self obsession one enjoys while in the chair) . The sitter is expected to leave it after sitting in it for a period of time.

The chair is free to roam and rest to user's content.



CHAIR

Production Level

LIMITED RUN

Materials

HUON PINE | STAINLESS STEEL



07 >

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Hoi Chi
Cheng . .

"...From life's first cry, to final breath, Jesus commands my destiny...till he returns, or calls me home, in the power of Christ I'll stand..."

The introduction of the supermarket model bought a new level of excitement to the world of retail in the 1960s. Supermarket has since gained in popularity, and has become an indispensable part of our modern life.

But as the supermarket model continues to undergo high levels of transformation, there has been limited innovations in the way consumers relate to those individual products sitting on the shelves.

The ARS Personal Shopping Assistant uses

maturing electronic technologies to provide price verification, running sums, and search functions. The PSA brings reality to personalised product bundling, potentially transforming the supermarket from a place of individual products sales, to a spot where holistic needs can be met.

More ever, this introduction of consumer electronics into the industry prepares the market for the coming RFID revolution.

Retail Technology

Manufacturer

Advanced Retail Solutions

Material

Polycarbonate



Advanced Retail Solutions; Personal Shopping Assistant

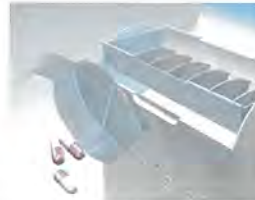


Sketch Models

The PSA boast a polycarbonate shell, with an internal structure designed to protect the electronic components from unintentional or deliberate harms. A featured hook allows for easy mounting.

Three hard buttons caters for the common tasks of price verification and adding items to the 'running total'. Advanced users are invited to use the touch screen to execute more complex tasks.

The maturing technologies of 2D laser scanners, LCD touch screens, mobile processors, and wireless networking provides affordability and flexibility. Emerging RFID can also be tested with this system.

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Cheung

"...MEDIpod emerges from this untapped potential of domestic telemedicine application with a swagger of smartness and style..."

The potential of domestic telemedicine has existed for longer than many people have thought; yet it remains a mystery why this application hasn't been noticed upon. Whilst such systems do exist, they are merely bulky computer desktops with medical programs installed. The MEDIpod system emerges from this untapped potential of domestic telemedicine application with a swagger of smartness and style.

This complete health system serves medication

reminders, allows tele-consultation with medical professionals via wireless technology, provides the user an unlimited health information through a "virtual health library" and more. Above all, MEDIpod is capable of delivering accurate and reliable self-diagnosis for a wide range of medical problems in the comfort of your own home.

MEDI pod



The health tablet is detachable and portable. While the way it "hangs" onto the main system owes to the metaphor of a medical clipboard.

An integrated 7 day cycle medication container set provides the patient a reliable and effective pill reminder, complimented by an alarm system if any irregularities occur during

The storage module provides a safe and organised possession of medication. An electronic locking mechanism ensures safety from childrens reach.

Home Telemedicine System

Manufacturer
N/A

Materials
Heath Grade Polycarbonate Resin



09 >

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Chuah. .

"...My design reflects the way I live. I believe that boundaries are to be pushed and rules are to be broken..."

People living out of home at a young age are society's norm. It is an inevitable phase of life, however, often not an easily adaptable phase. Due to a lack of experience and responsibility, often conflict and tension become the outcomes of the situation. Investigation carried out on the shared house living experiences and the statistics gathered from the ABS, form the basis for this project: Si.

The name of the product "Si" is taken directly from the periodic table of elements, showing the

main material that it is made of - silicon rubber. This material is chosen for its flexible nature.

Si is a new versatile domestic storage product, it is a range of vessels designed for the use of storing food that allow the user to have more control over his or her belongings in a shared living arrangement.

Si



Si is a 'keep-safe' vessel for food. This injection moulded form spells out what it contains and reflects the context of which it is meant for.

The aluminium clip is designed to seal the vessel. It can be sealed with or without a lock.

The 'X' symbol has a significant visual effect. It simply says 'out of bounds', for it has already been 'marked'.

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Liang Czajka..

"...I have to think about it..."

Transportation plays a significant role in our day to day living. It is also the largest single source of air pollution in the world. According to the statistics, the majority of taxi commuters travel alone in the city area. But the heavy fuel consumption taxi vehicles that are currently used are designed to carry multiple passengers.

Smartaxis is a one passenger city only taxi transportation system targeting the city taxi commuters who travel by themselves. The new

transportation infrastructure uses the combination of ecological friendly smartcars, and with the smartaxis online reservation terminals via Intelligent Transportation System across 20 suburbs.



 smartaxis



Smartaxis terminals are able to generate additional revenue by poster advertisements.

Smartaxis terminals come in in a vibrant range of colours, and can be modified according to the surrounding area.

Smartaxis terminals are easily maintained, robust withstand vandalism and various weather conditions.

Transportation

Manufacturer
Smart

Materials
Galvanized Steel, Sheet Metal, Glass



11 >

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Do. . .

"...Design is not for philosophy -- it's for life..."

Apartments → Living room + Entertaining +
Lifestyle = 'yucee'

The living room is a changing environment catering for our eventful lifestyle. It is a place for personal retreat after an arduous day at work, a communal room for entertaining guests and friends, it is a TV, dining, music, reading, and meditation room just to name a few.

Our furniture should not dictate how we use our space, rather it should ask us what it can do for us.

The yucee table does not restrict users to a single function, its 'u' or 'c' form allows manipulation of the piece and the cushions held by magnets may be removed for when extra seats are needed. It provides for a casual comfortable setting by enhancing the social environment through bringing people together in the one area and not have small congregations elsewhere.



yucee



yucee transforms into a day bed for those lazy times when you just want to sit on the floor, be it reading, listening to music or just lying around

By flipping the sides on top of one another a seat is created. Urethane stoppers keep them from sliding apart.

...a more cultural and finer way of dinning as oppose to TV dinners, yucee makes eating at home a cuisine worth remembering.



Furniture

Manufacturer
dido

Materials
Bendy ply + foam cushion + urethane



12 >

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Fany...

"...Believe in yourself and in your dreams. Say not-I cannot-but,I can. The prizes of life we fail to win because we doubt the power within..."

CAPSULE is a compact child seat for use in aircraft designed for children age 3-5 years old. It is intended to deliver a solution to the comfort for these children who travels in an airplane especially during long-haul flight.

Critical support such as lumbar and neck support is provided through the ergonomic design of the cushion which is based on these children's body dimension.

CAPSULE consists of the shell, cushion and belt brackets. The cushion could be easily folded up

and be stored inside the the shell which is molded as a one piece item. This gives a flexible hinge for the CAPSULE to follow the reclination of the aircraft seat. CAPSULE's compact size and lightweight made it an innovative product to be carried by the Airline Company and be provided to the passengers as a form of extension of service.



CAPSULE - Aircraft Child Seat



The corrugated internal section of the flap will fall out and follows the curve of the aircraft seat which serve as a calf rest for the child when the *CAPSULE* is in use.

It utilises the aircraft seat belt to hold the *CAPSULE* in place and as a restraint. The belt bracket is swivelable therefore it will not restrict the placement of the seat belt on the child belly.

It has a grip area on its exterior for secure lift and handle of the *CAPSULE*



if design

Aircraft Child Seat

Manufacturer

Materials

Self-skinning Polyurethane



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"...There is always a reason for everything we feel, hear, see, use and do..."

Childhood is an exciting time, but it can also be a dangerous period.

Children are at risk for injuries from the moment they are born. Baby injury due to fall is one of the serious issues that happen to babies everyday around the world. One of the main accidents that occur is babies fall off the changing table or the bed during the nappy changing process.

To prevent such dramatic falling injuries and risks from happening, we need a safer and more

convenient way to change nappies.

Naplux is introduced. Naplux is designed for a safer and convenient nappy changing experience for parents to the one they love and care.

Naplux is based entirely on two concepts: Safety and Convenience.



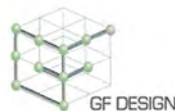
Naplax



Naplax is an innovative, combined with convenient and safe nappy changing unit. It is foldable and portable.

Naplax is made out of self-skinning polyurethane which produces a water-proof and easy clean up surface.

It has a safety belt to stop the baby roll off the table or the bed. Rather than using a separate baby bag, the unit contains two storage compartments which allows the parents to put in all the baby changing supplies.



Nappy Changing Unit

Manufacturing Process
Injection moulding

Materials
Self-Skinning Polyurethane



14 >

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"...industrial design is the essential discipline that will provide the edge for Australian manufacturers, now and in the future..."

The 'frettle' is a combination appliance with a refrigeration compartment and the ability to boil water on demand.

In the domestic environment, users will benefit from the convenience of being able to keep frequently used refrigerator items at bench height. Other environments of use include boats, caravans, cars, studio apartments and motel rooms.

The 'frettle' was originally designed to incorporate the wasted energy from the

refrigeration process and use that energy to minimise the usage of another appliance.

The product utilises the 'peltier effect' to generate both hot and cold areas within the appliance; in effect reducing the amount of energy required to boil the water using a standard kettle element.

FRETTLE- COMBINATION FRIDGE/KETTLE APPLIANCE



The front interface incorporates 'boil' and 'pour' buttons and provides visual feedback on the phase, level and ready state of the water.

The kettle part of the appliance has a flip lid for refilling and cleaning access.

The top of the frettle has a round level space that acts as storage space for cups, teabags and coffee. This is covered by a stainless steel plate that is removable for cleaning purposes, and as a tray for serving.

APPLIANCE

Manufacturer
CFD

Materials
PS, PP, ABS, Stainless, (polyurethane insulation)





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Emily
Gee

"...i never feel like just going along for a ride... i feel the need to drive so that i can choose my own path..."

Through studying young people's motivations and needs surrounding their first move out of home I looked to design a product that could help them in their significant step into adulthood. These factors in turn led to a product that could help in an area of home maintenance and provide several uses to the individual.

"s-TOOL-box" provides young people with a home maintenance and storage system for their first move out of home.

Easily rolled around "s-TOOL-box" also offers a

stable surface to sit and step up onto. A tool box compartment consisting of a set of tools enables the user to cope with any small jobs around the house.

"s-TOOL-box" presents itself as a useful gift for parents to give when their children move out of home, offering a trendy solution for storage and maintenance moving away from the garage and into the living room.



s-TOOL-box



Expanded, self-skinning Polyurethane foam cushion provides a comfortable but stable surface for sitting and standing on. Provides lid for tool box compartment

Rotational moulded Polyethylene tool box provides housing for home maintenance tool set sponsored by "STANLEY"

Rotational moulded polyethylene storage section is held up on four spring loaded castor wheels enabling easy movement of stool

Maintenance stool

Manufacture
ROTO MOULDING

Materials
POLYETHYLENE



WHOOSH



Children in the current climate are tending to neglect healthy and physical outdoor play, in preference to computer and game system play. Toy companies instead of fighting against this are actively encouraging it, tending towards products that don't facilitate the healthy physical, social, emotional and intellectual development of children.

WHOOSH is a step in the right direction.

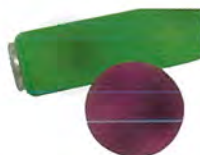
Using technology that has before been overlooked in the toy industry, WHOOSH is a multipurpose toy that provides differing play situations. Air power is the basis of the design, and WHOOSH harnesses that power manipulating it to create a range of interesting games aimed at children of all ages.

Sliding controls enable simple use.

The vents provide adequate airflow for WHOOSH to work whilst also proving an aesthetic feature.

Rubber feet provide a stable grip on any outdoor surface

THE POSSIBILITIES



WHOOSH is the beginning of a series of products that harness the power of air. By creating a column of air that comes out of the top of the product different games can begin to be realised.

The air can be harnessed through simple attachments to create big blow up spacemen, launch air rockets, create music, inflate pools and even to balance balls, creating a version of tee-ball with a twist.

These various games will either be included with WHOOSH or will be sold separately.

The sealed lid transforms WHOOSH into a device capable of inflating all the accessories in the range.

The bat and ball showcase the abilities of WHOOSH, providing a simple and fun game.

The safety grill helps prevent any prying little fingers from getting injured.

"... never stop playing with toys ..."



Kirk
**Jeremy
Gleeson . .**

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WHOOSH

Manufacturer
GDG

Materials
POLYPROPYLENE, POLYVINYL-CHLORIDE



The Possibilities

Manufacturer
GDG

Materials
POLYPROPYLENE, HIGH DENSITY FOAM



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Francis
Gow . .

"...awareness is heightened between construction site personnel connected through COMstruct, causing error and misinterpretation to decrease..."

COMstruct is a communication device aimed at enhancing personal communication on large multilevel construction sites. This device is intended to be worn by every worker on site so all can communicate to each other no matter where their position is. Presently, the majority of workers surveyed believe that a large amount of time is wasted and accidents occur more frequently due to poor communication. Time is lost by co-workers searching for one another to pass on important job information and errors such as the wrong materials being sent to an

elevated area happen. High noise levels are also a problem that COMstruct contends with preventing communiqué breakdown. Transmission is relayed to the helmet attachment via wireless Bluetooth connection to a digitally trunked UHF radio situated on the workers belt. Better communication will equal higher productivity and therefore a saving in time and money.



COMstruct



COMstruct uses wireless Bluetooth communication receiving transmissions from a digitally trucked UHF radio transceiver situated on the workers belt.

When hearing protection is not required the user pulls out the black frame which adjusts the hearing device to offset the ear. The user is then more alert.

The black frame also possesses a height adjustment which connects with the offset mechanism above, this also attaches to the safety helmet.



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"...I love you like a fat kid loves cake, you know my style I'll do anything to make you smile..."

As lifestyle and cultural attitudes of the major urban centres in Australia continue to change, so do the dynamics of living situations.

This is reflected in the shift over the past decade towards the inner city, mainly by young people who are attracted to the accessibility of metropolitan areas. However with more focus being placed on success, progression and diversification,

many of us are finding that we have less space, less

time and less of everything.

I wanted to create a product that would cater for the needs of this area of the market. "Spark Me up" is a storage and lighting unit within a coffee table, and seeks to blend all these features without creating too much, allowing the user to maximise space, time and anything else they wish to.



Spark Me Up - Modular Storage and Lighting System



Typical use situation. The user is sliding out one of the storage panels. The coloured panels house the LED lighting system.

A storage module with the lid off. Storage is large enough to fit magazines, CD's, bills and any other miscellaneous items.

This was the inspiration for the project. I saw many small studio's during the research process, but this stood out as feeling the most relaxed.



Furniture/ Lighting

Manufacturer
HIDAYAT

Materials
LLDPE, Polypropylene, Conductive metal





Dispensing Gun

Double wall
vaccum bottle**Contact****Phone:** 02 9482 3394**Mob:** 0403 369 684**Email****m_m@hotmail.com**

"...thanks to the supports from my family & friends...most importantly, praise to the Lord He been really looking after me..."

Coffee Industry has been competitive and expand rapidly in the recent years. Nescafe has always introduced a series of coffee mix in order to fulfill the convenience and quality.

However, the market is lacking with hot beverage tasting promotional tool, which M-Espresso is an flexible, portable and mobile unit in order to help the company to promote their product.

The design of the M-Espresso has been designed

to dispense the coffee mix and hot water at the same time. The aim is to give an impression and attractiveness to the customer about the Nescafe product - convenience and quality. M-Espresso comes with a dispensing gun, vacuum bottle, cup holder. All these items are being packaged in a tailor made backpack. You will find everything you need to make a coffee from M-Espresso.

M- Espresso



Ergonomics and safety of the dispenser handle has been designed sophisticatedly, with a comfort posture of holding, user friendly display and safety protection locking.

Simple connecting mechanism and no electrical power involve allow efficiency and minimal training to use.

The entire design of M-Espresso fits with Nescafe brand image. Advertisement can also be placed on the backpack to enhance promotional effectiveness.

Promotional Tool

Manufacturer
Injection Moulding

Materials
HDPE



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"... Watching my TV, eating my noodles, drinking my beer, lighting up my cigarette, re-adjust to sink into the couch, laugh then turn to see if my brother is laughing too. This is my life. I designed it this way. Can I help you design your life? ..."

Interest grew into in-depth researches into social, consumer and market trends concerning decline in birth rate, digital integration, personal electronics, lifestyle products and relaxation technics. the conclusion was an emerging market in developing personal electronics helping female between the age of 23-35 to manage their health, beauty and peace of mind. The solution was Zi, the personal life style organiser.

Incorporating existing technologies, Zi is cosmetics for the mind and the body, through the massage unit it provides the user with brief escape from the pressure and stress from everyday living, whilst recording frequency and pressure exerted by the user to relieve her stress. These data are collected and processed by the main unit over period of usage to allow for self assessment by the user. Zi aims to assist, not control.

Consumer Electronics

Materials

Acrylic Silicon Lexan Resin



Zi - personal lifestyle organiser



Through holding workshops and group interviews, sketch models were tested extensively with the target market for form, functionality and ergonomics.

The LCD module shoot's out from the body, minimizing re-adjustment of hand position and encourages one hand operation. The massage unit detaches easily of the end.

Emotional Cosmetics, the mind needs beauty treatment too. Users face is overlaid with a map of acupuncture points through interaction with the camera and the LCD module.

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Khairul
Hussin

"...to accomplish great things, we must not only act, but also dream; not only plan, but also believe..."Anatole France

Australia has seen an increase in popularity in apartment living. While the apartment population grows, the size of apartment gets smaller.

Kitchen, the hearth of the home, is also becoming more confined. Lack of working space and food preparation area are the main issues in small apartments.

PANDORA, a modular table for small apartments are designed to provide additional food

preparation area for the kitchen. Its exterior laminated finishing is aesthetically pleasing and also durable to be use in the kitchen.

When Pandora is not needed, it can be wheel into the living room and be use as a coffee/magazine table, thus freeing the much-needed space in the kitchen.

Pandora



Pandora can be use as a side table when placed in the living room.

When combined with the base, Pandora can also be use as a magazine rack or storage.

Fully assembled, Pandora provides additional food preparation area for small kitchen.

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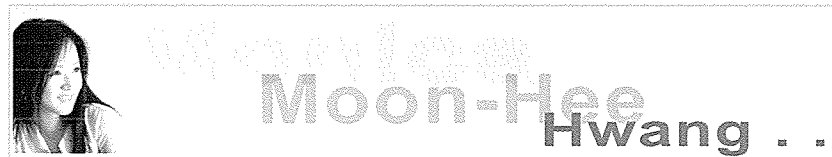
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"...I have always believed designers should have dreams, and from that, create the reality that can enhance quality to our life, I am a dreamer through and through..."

The fear of cycle theft has certainly become a significant deterrent to the growing cycling community and yet large numbers of cyclists do not use bicycle locks to secure their bicycle. The reason being- One: current locks are useless. Two: Have poor flexibility, durability, versatility, inconvenient, and etc.

Through studies of characteristics of bicycles, cyclists, and existing lock systems and its materials, I aim to produce a New Secure Bicycle Lock, which helps reduce

these problems cyclists face everyday, making a safer environment where thieves can no longer steal bikes with ease.

Main objective of Intra-Lock is several different locks are integrated into overall of the bike frame to give full security over whole part of the bike. This would be durable, effortless carrying, easy handling, very convenient for cyclists.

Intra-Lock



The significant component of Intra-Lock is in the main frame of the bike. Cyclists do not need to carry heavy, rigid locks any more. Compactable locks are securely locked inside when cycling to give more pleasant experience. Combination of multiple materials would give higher resistance from any cutting tools that theft may use.

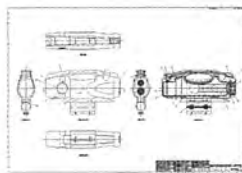
After purchase of bike, the cyclists need to lock the front/rear wheels & saddle locks once, because the bike is fully functional. When cyclists park their bike, they need to only secure into the locks that is in the main frame of the bike and is fully secure.

Sports Equipment
Bicycle Lock System

Manufacturer
Monica Hwang

Materials
Carbon Steel & Steel



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Ibbotson

"...Design: The endless pursuit of perfection..."

The idea behind the Hydra-8 came about after investigating portable, water filter and chiller concepts.

Hydra-8 is a portable water filtration and chiller unit to be used in leisure tour cycling.

It has a 1.5 litre capacity and is chilled down to 8° C. This temperature is the optimal water temperature for re-hydrating touring cyclists.

It operates on a peltier system. This is a Hydra-8 has a 5 micron carbon based filter.
our project here. Keep within the 2 text fields.

Enter description of your project here. Keep within the 2 text fields.

Idevice which extracts heat from one area when DC current is applied leaving the water at a cooler temperature.

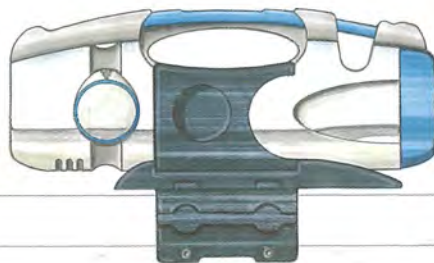
Hydra-8 has a 5 micron carbon based filter.

HYDR-8 is powered by a 6 volt hub dynamo which is positioned on the front wheel of the bicycle. For the top of the range model additional power comes from UNSW PERL solar cells

HYDRA - 8 ... The 21st Century Water Bottle



REFILL CAP



ATTACHMENT BRACKET

DRINKING
ARM

FAN
OUTLET

BICYCLE
FRAME

Water Filter and Chiller

Materials

Aluminium Housing, and ABS Handle

Target market for HYDRA-8.

Photo courtesy of Cannondale Bikes

HYDRA-8 drinking arm in extended position.

Photo courtesy of Cannondale Bikes.

CAD General Assembly drawing





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"...Design is about creating a better life rather than simply the object itself. Industrial design is an especially important and expanding design field from tiny little objects to entire systems which influence human life..."

Roomy is a Put-It-Away computer workstation for the home office, swivelling base and castors are located at the bottom to create personal area by easy pulling action when it is in use

Roomy is aimed towards students and young professionals who have limited space for working and those sharing a part of room.

Cam design assists the easy pulling action which Roomy creates a personal area by,

Roomy Creates room (personal working area) in a room (part of bedroom, living room) Doubles your living space as a result of particular design! Put It Away.

A great advantage to have part of the home as an office is not only saving money, it is valuable towards saving time and increasing quality of life for both students and young professionals.

ROOMY THE HOME OFFICE WORKSTATION



Roomy is designed to be used both sides: Front side is mainly used as storage and cable management thus this can be used before and after creating a personal area. And back side is computer workstation which will not be seeing if the workstation is not in use

The moving pivot point within cam design brings the whole workstation out for easy to rotate and in again to create room very close to the wall with out enormous force

This is very important issue due to **Roomy** requires walls to create personal area; in addition, roomy has to sit very close to walls to create perfectly surrounded area after and before the swivelling movements however during the swivelling movement Roomy has to move out to allow rotation action.

Sports Equipment

Manufacturer
DATOT

Materials
ROTATIONAL MOULDED POLYURETHANE



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"...O-mode is more than just conceiving need of system.. it is a new experience in our culture – Fast Nation..."

O-mode, modular by design, offers a variety of configurations to fit real-world fast food restaurant environment.

The system is designed to allow consumers to come in and sit straight away on the vacant table. Just type in your password if you are our loyal customer or you may also purchase our pre-paid card by the separate vending machine. Yes, "...I wanna eat more..."

The best part is that O-mode offers its unique

ability to upgrade the position if you determine there may be a more appropriate configurations.

O-mode combines it's expertise in touch-screen, human factors design, and self-service to create an ideal "food buddy".

O-mode incorporates feedback from end-users, including consumers, cashiers, and restaurant employees. The end result is a flexible Self-Ordering System solution!

O-mode



Modular design and as a remote attendant station.
Flexibility of Wyse system, Ethernet or Wireless LAN.

12" Touchscreen colour LCD panel with intuitive graphical user interface.

Fun interactive food ordering interface - drag your food.
Programming/ Design by Grace Leung, UNSW Science Architecture.

Self-Order System

Manufacturing Process
Injection Moulding

Material
ABS

3M

NCR

abuzz



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alan richard
kwan

"If the personality of a designer is expressed through design, my design principles envelop simplicity, communication, innovation and persistence..."

The BLEED table was designed in response to the delineation of space within our living environments and the shifting importance of the home office.

The surge in smaller space living and the number of people who do some form of work from home has presented a large demand for home office products.

My objective was to design a workstation table that would be able to provide ample workspace and storage space but also

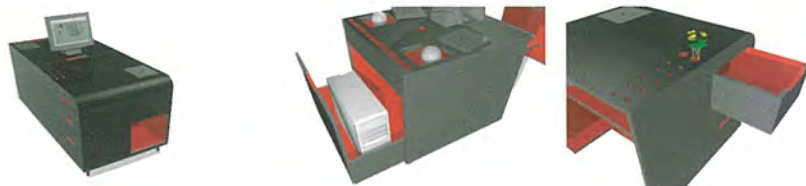
having the ability to conceal the workspace to avoid the visual clutter of the office environment within the living environment.

On one of the cubes are castors so when rolled out, creates a workspace for the individual.

Other design features are incorporated into the table to enlighten the typically mundane workstation.



BLED table



When the BLED table is closed, the workspace is concealed and can be used as a side table or an *entertainment table*

Within the side drawer, sits the CPU and space for a printer. The speaker lids also can be removed

Other features found on the table are spaces for stationary, a temporary vase and more drawers for storage

Home-office furniture

Manufacturer
Michael Kwan

Materials
Colorati and Laminates



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Konrad Ming Chi
Lam

"...it is thrilling designing innovative products that people don't yet realise they want..."

Chilly is a food storage/preparation platform designed to target the needs of a male single person household.

The hectic/exciting lifestyles of the target market demands effortless and efficient food preparation (e.g. microwave meals) and storage (e.g. extreme high volume required during parties and low during normal time) within their households.

Chilly's major components are two essential home appliances - the refrigerator and the microwave oven, a drink chiller is also equipped.

The top of Chilly also serves as a food preparation surface.

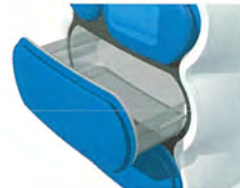
Using thermoelectric/peltier cooling technology, storage compartments can be freezing or refrigeration compartments, depending on the user's need. They can also be switched off to save power when not in use.

Designed to be placed in the lounge room instead of the kitchen, Chilly steers away from the traditional home appliance appearance and takes on a bold form which states its presence.

Home Appliance



Chilly - Refrigerator/freezer/microwave/drink chiller



Drink chiller - cools drinks in 5-10 minutes

Refrigerator/freezer compartments cooled by thermoelectric (peltier) technology

Dimensions - 810 (W) X 1000 (H) X 710 (D)

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Leung

"...Life is like a piece of bog, you can always fix things up, no matter what happens..."

As we step toward to the turn of the century, we're still being threatened by a world-wide issue, that is air pollution. Good quality air is essential to us because it is the prime element that keeps us alive.

O³ is a personal air purification unit that purifies ambient air around the user. The market is aimed at business professionals as they're the main sufferers from poor quality air as they travel to work on public transport such as crowded trains, buses, and automobiles, which emit carbon

monoxide, and exhaust emissions.

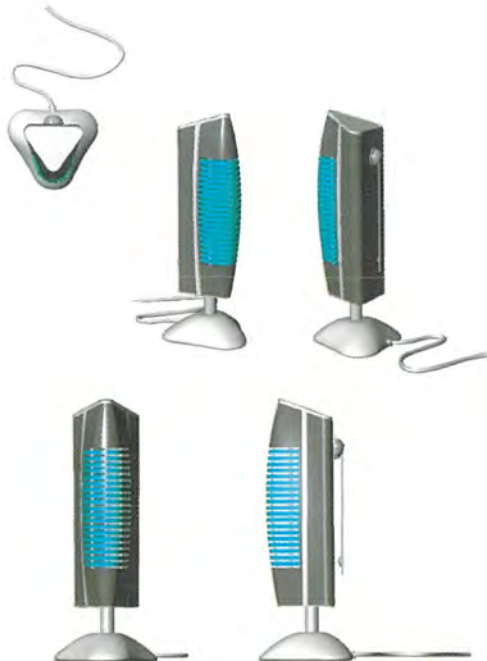
Research has proven that poor ventilated workplaces with a high concentration of positive ions is a major cause of chronic migraines and fatigue.

O³ can be clipped onto a business tie/shirt pocket, it can be placed onto a decorative desktop charger which can be used in a doctor's surgery, or it can be attached to a car 12V AC adaptor.

Health Product

Manufacturer
ResMed

Materials
ABS, Aluminium



O³ Personal Air Purification Unit



Unit can be disassembled for cleaning and maintenance. Interchangeable covers can also be used to enhance user's individuality and style.

The tie clip has a locking mechanism so the user can adjust it vertically or horizontally according to where they clip it to.

Actual O³ unit on charger. Eye-soothing, relaxing, soft neon light illuminates from stylish, petite charger.

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Duzhuang Liang . . .

"...life without design is like birds without wings..."

STU workstation is designed to meet the growing needs of students in Australia and other parts of the world. It has been identified that students have a growing need for storing books and other materials as they move through their schooling career.

To meet the growing demands of students STU is a modular system that has the ability to extend the extrusion upwards and extra shelving can be attached,

Also, the profile of the extrusion is specially

designed so that extra shelving can be added on the sides, such as bookshelves or extra tables on the side. Another advantage of the workstation is that it requires not screws.

STU



STU uses an innovative method to support the table by using only the wall and floor.

STU workstation requires no screws making for a simple assembly.

The table height is adjustable to suit different users.

Student Workstation

Manufacturer
EXTRUSION

Materials
Aluminium, Recycled HDPE/PP



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"...design = users' satisfaction..."

Coe is a shoe storage system especially designed for overseas student.

Overseas student experiences a difficult time in Australia. They found it frustrated to manage well on both personal living and academic performance. Clutter is a major fact leads to the problem. An organised living environment is vital to reduce stress.

Shoe storage was found to be the main problem urged to be solved. Recognition, motivation,

sharing, spacing, disposal and visual impression are the main issues.

A modular form shoe storage system "???" with great usage flexibility has been created for overseas student. Each flatmate only need to get enough modular for their own shoe.

Coe



Flatmate can divide their shoe into columns or according to modular colour. Every modular can form individual storage for packing away when move.

Simple flipping motion motivate the overseas student to use the product easily in their busy life.

All shoe is displayed for easy recognition. At the time the shoe is taken away, the flap will automatically flipped back.

Shoe Storage System

Materials
Polyethylene



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Doree****Luciano . .**

"...happiness is an important part of life and so my designs encapture a bit of fun, a giggle and a cheeky grin..."

Children can often feel afraid or simply not want to go to bed leaving parents to think of ways to make the bedtime routine less daunting and more fun.

Night lights are often used to counteract this fear of the dark or the dreaded boogie man by lighting up the room gently. Parents often read to the child in bed with hope that it will put them to sleep and calm them down.

twinkO* is a children's night/reading light that engages the user to interact with it but choosing the direction and spread of the light emitted.

When reading the collar comes up to focus the directional light of the LED's and when it is brought down the light is spread out creating a softer night light glow.

twinkO*



Sliding Collar allows the stems to focus together for a stronger reading light and then spread out for a softer atmosphere.

The round spherical shapes allow for rotational movement helping to better the direction of light.

9 bright white LED produce a directional light so that when each stem is brought together enough light is produced for reading.



Children's Night/Reading Light

Manufacturing
Injection Moulded

Materials
ABS , PVC tubing , LED's



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ben

McCarthy...

"...note to self: in this space write something a little different, intelligent, provocative, simple, add a touch of humour..."

After an exhaustive study on the concept of comfort within small living spaces it was found that comfort exists mostly as a psychological state impacted on by physical surroundings and enhanced by attributes such as adaptability, illusion of space, clutter and warmth. The aim in this case was to design something cosy, not claustrophobic.

Yood appears to be a small, unassuming, simple two-seater lounge, yet it consists of 3 independent elements. The upholstered seat can be removed to stand alone on four short

feet, leaving the leg structure as a freestanding coffee table. The folding stools are stored out of sight under the table and may be used as a footstool or seating for guests. There is space for two stools and thus yood can quickly seat four people around a table. In any configuration the components un-expectantly transform into another function without compromising use in either instance.



y o o d



yood seat: upholstered foam, plywood frame. 4 x 70mm stainless steel feet marry into holes in table surface.

yood table: stainless steel legs form an independent coffee table in the format shown. They also provide legs for lounge.

yood stools: Folding stool / ottoman may be stored under table and used independently to lounge and table configuration.

sofa system

Materials
stainless steel, plywood, wool



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Metcalf

"...I don't design space juicers, poker machines, or inflatable dolls of Jacqueline Kennedy..."

The Journeyman provides a comfortable seating system for long-distance train commuters. It has the flexibility to allow a greater range of passenger activities than other seating systems using a similar amount of space. In the upright position passengers can do all their usual activities of working, talking, reading etc. Simply by pushing their back against the backrest the seat reclines creating enough tilt for the passenger to sleep comfortably for small durations. Space intrusion on the person behind

is minimised by the backrest having a high pivot point. Sitting up returns the backrest to it's upright position. Like existing seats, they can be reversed to allow people to travel in groups. Seat cushions and upholstery can easily be removed by maintenance staff and cleaning access under the seat has little obstruction.

JOURNEYMAN, LONG-DISTANCE COMMUTER TRAIN SEAT



Backrests recline at a high pivot point minimising the space interference to the person behind.

Seat rows can also be reversed to allow people to face the direction of travel or to form groups.

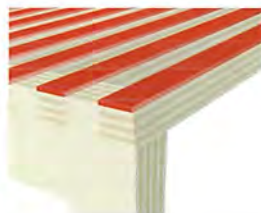
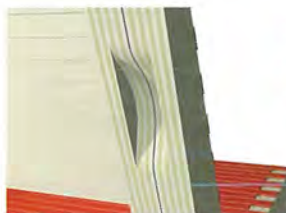
This design uses a similar amount of space as existing seating systems on long-distance commuter trains.

Train Seating System

Manufacturer
N/A

Materials
Fibreglass, Plate Steel, Polyurethane, Vinyl





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Leivestad
Olsen

"...Its shape is its function and vice versa..."

I researched the function and flexibility of compact living spaces and found that there was a need for flexible seating solutions in the lounge. The result is CHAIR - 4 - 2, a space saving lounge seat which can double when necessary, to seat the "extra" guest. The main idea is to increase the **potential** seating capacity without permanently taking up more space.

CHAIR - 4 - 2 is inspired by Scandinavian functionalistic furniture. Its shape is its function and vice versa. The simple structure utilises the

excellent qualities of plywood. The leather covered slat seat offers comfort in itself and will only look better with age. CHAIR - 4 - 2 also offers freedom to add accessories such as loose cushions, a woolen blanket, a cow hide or what ever at hand etc.



CHAIR - 4 - 2



Integrated handles to accommodate extension.

Slats covered in craft leather for comfort, durability and style.

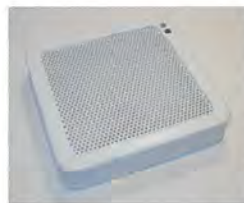


Simple light design uses few different parts. Side profiles and seat slats makes up the entire structure of the chair.

Extendable Lounge Seat

Materials
Plywood Victorian Ash





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Thom

Powell...

"...Appropriate and good design should address user needs in a practical, beautiful and above all, meaningful fashion on all levels..."

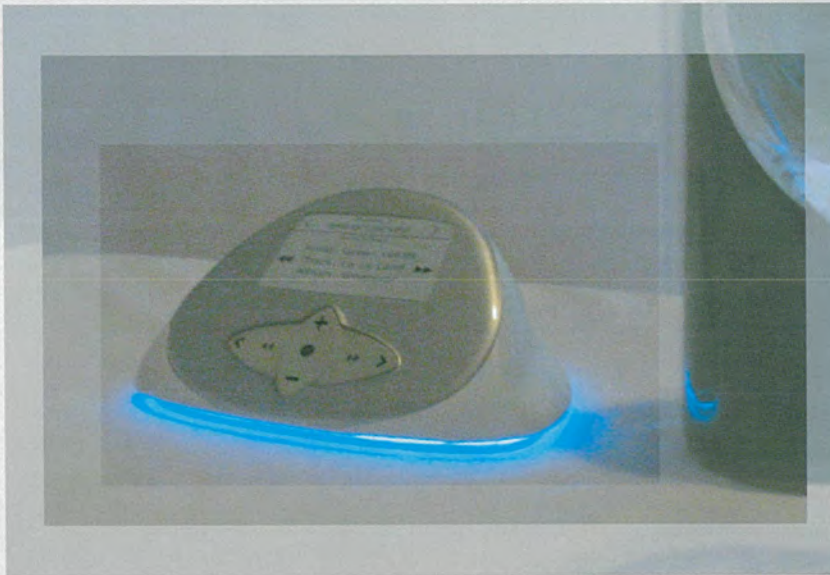
Utilizing the most revolutionary development in audio since the invention of the cone loudspeaker, the Usonic system employs technology originally developed for sonar to allow sound to be tightly focused and localised like a beam of light. The Usonic system is designed for restaurants, cafes and lounge bars to replace traditional sound systems used for background music.

Interaction with the system is similar to a personal audio device. The system allows

individual users to control their listening environment, reducing unwanted ambient noise associated with existing systems. From a remote control unit on each table, patrons can access a server, select music and control their own personal soundscape without disturbing anyone around them.



Usonic



Via a basic interface, the user selects music arranged by playlists and searches track. The server outputs to a signal processor, Modamp to the transducer

Using Ultrasonic technology the transducer produces sound within the air column in which the waves travel, creating directional audio

EL lighting provides ambient lighting in low light. The unit has interchangeable colour covers and lighting to match any given environment.

Directed audio system

Materials

ABS, EL lighting, patented ultrasonic transducer technology



36 >

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“...You may say I’m a dreamer, but I’m not the only one...”

My design enters the world of radical, extreme sports. The snowboarding industry is growing at a rapid rate. It has become my purpose as a designer to investigate and create better solutions for their product needs.

The snowboarding industry currently relies on two main methods of binding attachments, support (strap-ins) or quick release (step-ins), there has been no development into solving both problems within the one binding.

My design solves this allowing functional support within a quick release binding system whilst also maintaining the ability to use a soft core boot. The design uses advanced materials such as Magnesium Alloy and Xenoy to give the product lightweight and flexible attributes which benefit the design when used within its environmental conditions.

LinkBinding



Snowboarding picture

Here you can see the support ribbing under the baseplate.

This is an overall view with accessories attached

Sports Equipment

Manufacturer
DRD

Materials
Magnesium Alloy, Xenoy



37 >



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"...I wonder what the world would be like if more people prioritised contemplative time over reactive consumption..."

We are all profoundly unique beings navigating a reality shaped by modern storytellers. A storyteller is anyone who encodes a messages into a digestable form or story. Stories direct an individuals and a collective societies well-being. The intentions driving modern stories are predominantly dictated by the economic realities of the modern age and unfortunately this tends to neglect the real needs of you and me. claims on the moment and the absense

condition. Due to this the states of well-being communicated omits a significant amount of what it means to be human.

Contemplative time is considering the beauty of existence or simply doing things at a slower pace. Though it is not in the spirit of the times due to the

of stories highlighting its importance.

Tip: think for yourself. Start questioning the intention of the stories that you come across in the course of a day. Every story you come across is attempting to influence your behaviour. Step back and dream your own stories. Take the time to dream your own reality.

Stories are told to turn a profit and not generally to encourage you to penetrate the depths of this human

cocoon



cocoon is a space for growth and tranformation.

Silk fabric flitters down to redesignate a space, blocking distractions and facilitating contemplation.

A low consumption fluorescent lamp creates a clean light source both in the active and passive modes.

LIGHTING SPACE

Manufacture

Materials

Batch Production

Acrylic diffuser, silk fabric, flokati rug.



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"Squashy" Robertson..

"...a successful design had to be durable, stackable, price competitive and versatile ..."

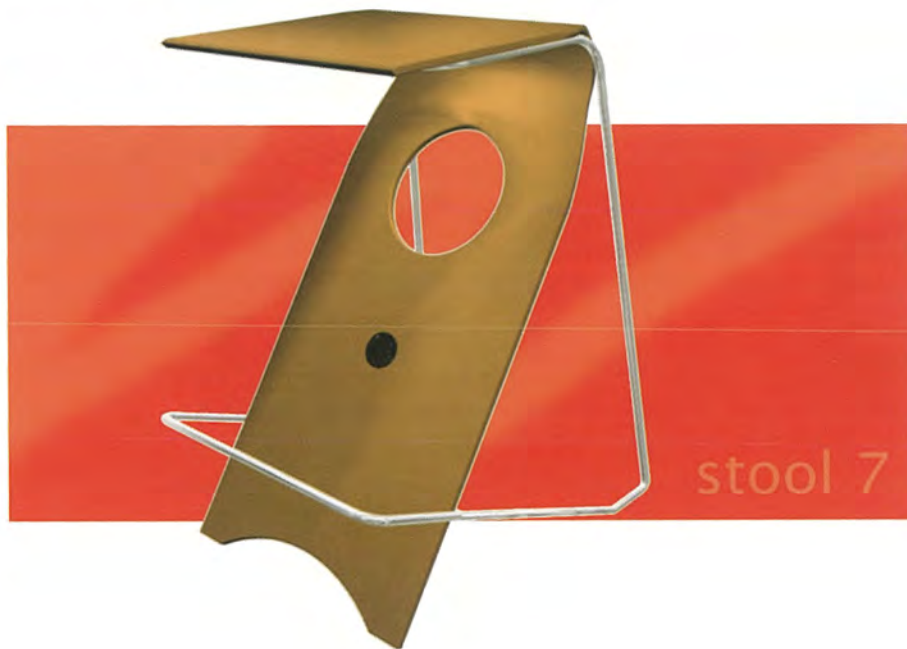
The "stool 7" was designed as a seating system for SQUASHED Enterprises that is easy to manufacture and low in price. Field observations and industry interviews showed that a successful design had to be durable, stackable, price competitive and versatile enough to be used in different domestic and commercial environments.

The attributes of stool 7 are that it is light in weight, used both in and outdoors, easy to clean, repair and replace to cope with the severe

treatment the product undergoes in domestic and commercial environments. The seat profile shape and the movable footrest allows for stackability

Our target market is the commercial and lower end domestic market, where we aim to compete on price and a value for money strategy.

stool 7



Flat pan seat allows the provision of cushioning low maintenance and ease of cleaning. The curved seat lip provides for the circulation and comfort of the users legs

Footrest attached to main assembly via swinging hinge. The footrest is secured to the chair by a magnet to allow for raising or lowering.

Overall dimensions
seat height 700mm
seat width 460mm
seat depth 400mm
seat to footrest 450mm

Furniture: seating

Manufacturer
SQUASHED

Materials
Plywood and powder coated steel



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"...to learn from your own mistakes is the most valuable lesson that will lead you to success..."

Bright Light Therapy have been widely known as the most effective to cure Seasonal Affective Disorder or also known as the winter depression.

Cush is a bright light therapy device that are designed to give the user sense of relaxation and cure the disorder as well. The device basically produce a high Intensity light (5000 lux) that are required to treat the S.A.D sufferers.

An Elastomeric Gel are used for the outer shell of the product as to give the therapeutic effects to

the users that engage with the product. Cush also powered up with Ni-Mh rechargeable batteries, thus giving the user freedom by having it cordless.

The light inside are protected with a hard shell made of polycarbonate that act as a diffuser for the light as well.

CUSH - Bright Light Therapy device



Clear thermoplastic rubber compound or also known as elastomeric gel are used for the outer shell and protected with a PVC skin.

A compartment for the lighting and the electronics can be slide out to replace the fluorescent lamp inside.

Simple and contemporary form and shape will suit any kind of environment. A choices of subtle warm colours matches the product function.

Therapy Device

Manufacturing
Injection Moulding

Materials
Elastomeric Gel, Polycarbonate



40 >

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"...codename:jellybeans; top secret plan #2981 : taking over the world one design at a time..."

Blu seating unit is the answer to easy travelling concept and chilling out. Blu creates a resting ground anywhere, anytime, fitting ones in the urban society.

Spectators are often the forgotten market in sport industries, where the excitement and celebration are over soon after the match. Blu was born from streetball, giving users the experience of freedom, boundless creativity and respect. To sit and stand out in the crowd and just cap-

turing the moment. DON'T BE A SPECTATOR. BE THE SHOW.

Designed to create a gesture of sitting (perching) with each element continues to give form to another, suggesting what happens next.

Combined with quick and easy release clip system, the seat can be folded onto the backpack in no time, when you have to get up and go. Blu is the new face of urban street furniture system.



BLU seating unit



One piece molding PP seat for extra strength and continuity, carefully designed to avoid localised stress and tear while reducing weight.

Dual telescopic aluminium tube legs can hold up to 125kg. TPE replaceable feet to prevent you from falling over.

Backpack is designed to suit the seating unit, using the finest material for durability. 'Storm' harness system keeps your back cool. For more info contact me please.

Seatable Backpack

Manufacturer
blu

Materials
Polypropylene, Aluminium, 600D Cordura



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Instrumental musicians of all levels, amateurs and professions have a high level of musculoskeletal problems, especially from the neck and upper extremity.

These types of injuries cause discomfort, hinder playing, and have ended the careers of many extremely talented musicians.

Inadequate seating is a major cause of musculoskeletal injuries.

In one survey of a UK based orchestra (Gordan and Ashburner, 1993), 86% of musicians who

responded believed that poor seating was the cause of backache, neck and shoulder pain.

The Virto seating system allows height adjustment of both seat and backrest and enables seat tilt to ensure all instrumental musicians are able to achieve their various seating postures.



Materials AL STEEL Recycled PP PUR



VIRTO Musician Seating System



Height Adjustable seat base with tilting mechanism can be adjusted to suit many playing postures. Backrest may be removed for stool version. Seat height ranges from 450mm - 690mm (sitting height) 690 - 900 (Stool height).

Two part base allows for horizontal stacking.

Seat Tilt mechanism allows up to 5° Tilt for musicians who require a more forward sitting posture.

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LitterBUG is an innovative machine for sweeping hard surfaces and collecting litter from grass. It is designed for use by local council workers and contractors in areas with medium to high levels of litter.

LitterBUG is a manually operated machine. The 9:1 gear ratio means only minimal force is required for efficient use.

It produces very little noise or dust, requires no fuel and is very simple to operate, maintain and service.

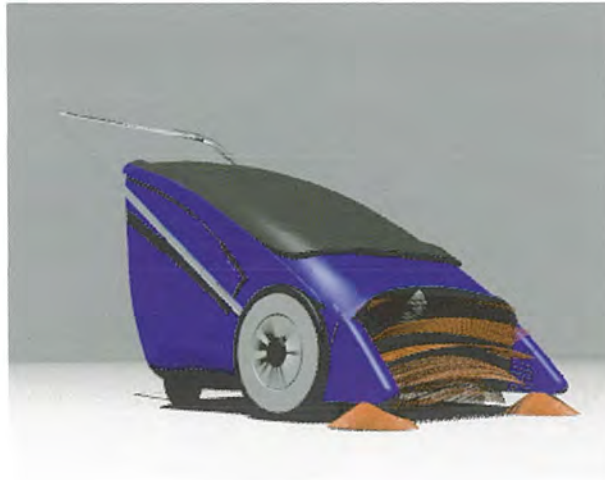
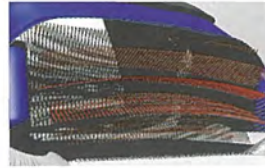
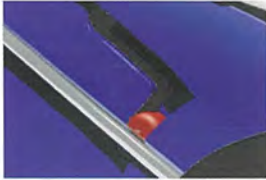
Emptying the waste is quick and easy. The rear section, which contains the waste, separates from

the front by lifting the handlebar up and back. The top cover falls down to cover the waste and it can then be wheeled away for disposal.

LitterBUG eliminates the need for the worker to come into contact with waste and the rigid walls protect from sharps.

LitterBUG has a capacity of 160L and is capable of collecting litter as large as a standard shoe box.

LitterBUG



Sliders (in red) allow the handlebar to move up and down within a safe range, preventing waste falling forward and out of machine when operating on steep slopes.

The handle on the top cover is used to lift the cover and insert very large and difficult to reach litter which requires the use of a gripper.

The rotary brush is designed with widely spaced, rigid bristles which rake through long grass and prevent brushes jamming on large objects.

Push Sweeper

Materials

HIGH DENSITY POLYETHYLENE



43 >

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"...designing (drawing) using blue pencil gives you more freedom and creativity to work with free form lines..."

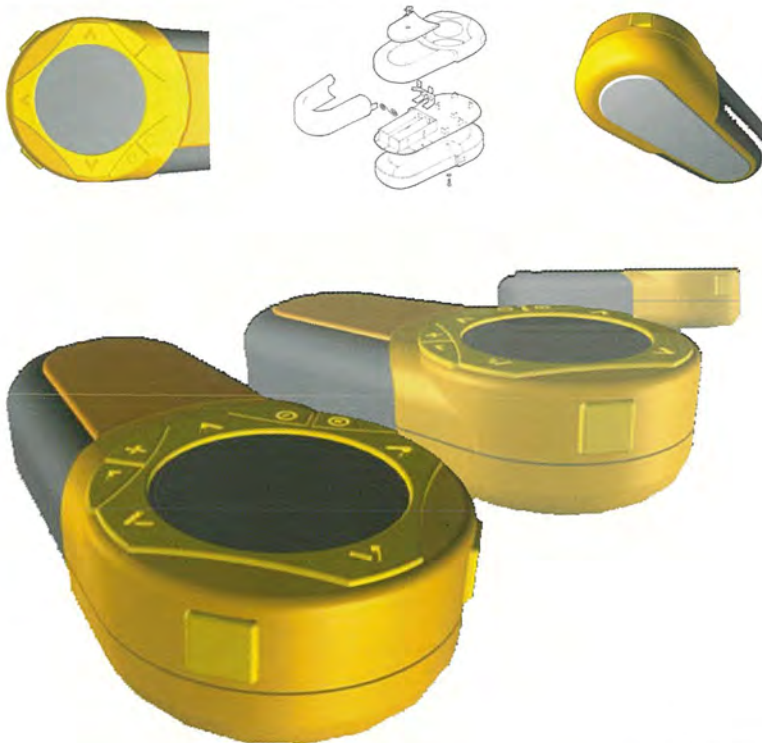
Observation of 8 GPS receiver shows that most of the GPS receivers have battery life ranging from 10 to 16 hours. It could be a problem for those extreme adventurers, as they have to carry extra batteries and with the risk of losing data stored in the GPS receiver.

On the other hand, the sun gives us more energy each day than the whole world's population would consume in 25 years.

The development of solar power alternative energy brings an answer to those problems of energy scarcity. And it is the answer for that GPS receiver battery life problem.

TraX designed by combining modern technologies to answer human needs.

traX : solar power GPS



Buttons designed showing the direction of navigation for ease of use.

Exploded drawing of the product, showing how the components joint together.

Solar panel on the other side of the product.

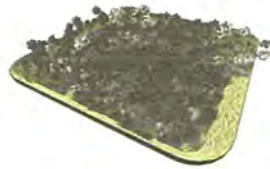
Navigation Device

Materials

CYCOLOY - LEXAN - PELLETHANE



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Nicholas
Tan

"...we can afford to buy big cars and live in beautiful apartments, but we can't keep people from starving. What a shame!..."

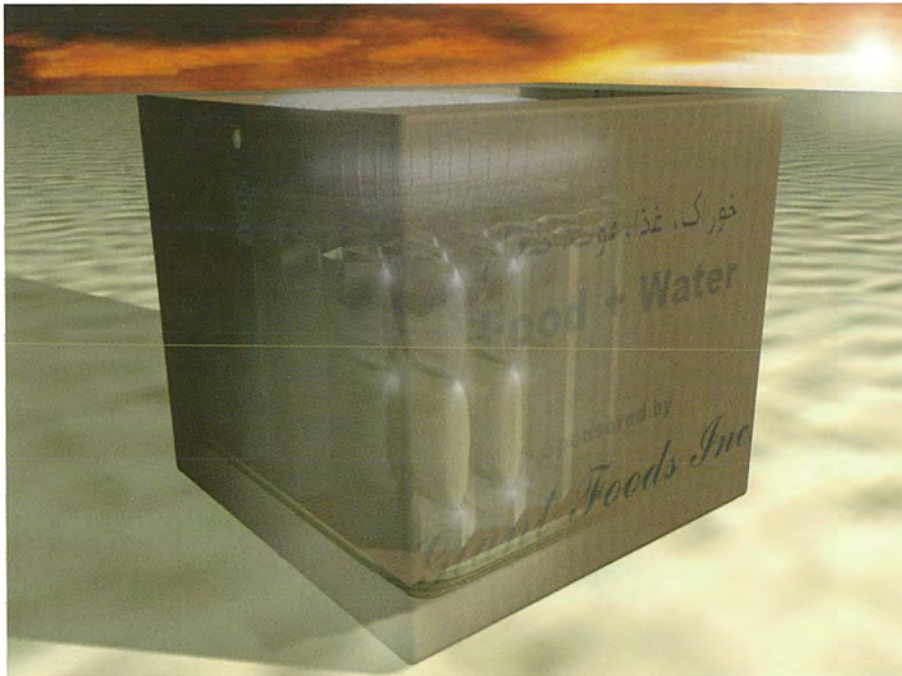
My greatest inspiration came after watching people having to eat grass in Afghanistan during the war against terrorism. With a good amount of sympathy for victims of war who need not perish through hunger, I decided to create Manna. Manna is a food relief packaging system designed to be aurally inserted, so that no relief workers would need to be in a situation which is life threatening. Designed to withstand the impact of the parachute opening and landing, Manna is to be used as a humanitarian product sponsored by commercial

corporations. To reduce pollution in troubled areas, biodegradable materials like cardboard and yes - popcorn as a cushion - are employed wherever possible.

I believe that design should be more than just for the affluent.



MANNA



The parachute is shown after landing. Not destined for disposal after deployment, the parachute can be used by refugees as makeshift shelter from the weather.

The food bag contains 500gm of soya bean and 400mL of water. That provides about 2100kcal - one day's supply of energy.

Popcorn was used as a cushioning material inside a paper pulp moulded tray. It is organic, biodegradable, and possibly one of the few edible cushioning materials!

Emergency Food Relief Package

Materials

CARDBOARD AND POPCORN



45 >

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"I believe being playful is a key to be creative. Looking through the eye of a child gives a whole new perspective view of life. And by this I create.

The project is to create a product that gives playful environment in the office, which helps to reduce stress. According to the research, when users use products that stop them from doing work, they tend to prolong the activity, which causes them not getting the work done. That, in the end causes more stress. The product has to be used while users are doing work and adds pleasure to work. Kat&Mouse is a friendly family of interactive keyboard and mouse. It gives feedback by lighting up four different colours when users do activities

that cause Repetitive Strain Injuries and gives friendly greeting when users approach within the distance of 30 m. The Infra Red mouse needs to be placed back to the keyboard to be recharged at the end of work. Fast charge option is available when the battery is flat in the middle of work. PS/2 cable located underneath the keyboard is retractable and to be connected to the mouse.



Kat & Mouse



Special keys: email, internet,
my document, volume,
shopping; and speaker.

Mouse back in recharge
position..

Massaging rubber pad for
soothing palm and therapeutic
purpose.

Office Toy

Materials
Acrylic, Santoprene





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**Grahame
Tindall..**

"...The beauty of a living man and of a statue are incompatible, excessively working in the stone only denatures the stone and caricatures the man..."

The problem of pests in the kitchen environment is long standing and challenging. This project begun with a thorough study identifying cockroaches as the worst offenders in the Australian kitchen.

The Gossamer Safe eliminates the ability of these pests and many others to access your storage space and create comfortable harbourages.

Its use of modern rotational moulding methods with the help of magnetic sealing technology

creates an impenetrable cupboard space. The installation requirements leave sufficient space between adjoining surfaces to eliminate pest harbourages around the unit and the low friction feet allow the easy removal of the unit for cleaning.

The Gossamer Safe incorporates a pure versatile aesthetic to facilitate a diverse user base

Gossamer Safe



When shut the door creates a completely sealed storage space, eliminating pests access.

Adjustable leg heights to suit uneven kitchen floors.

Available in a range of sizes for different applications. Floor, wall and pantry units.

Available in a range of colours



Kitchen Storage

Materials
Rotationally moulded Polyethylene



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"...Each object I create brings me one step closer to conquering the world. I say: more power to designers!..."

Bright light therapy is a form of treatment prescribed to seasonal affective disorder (SAD) sufferers by providing them with a source of artificial light that aims to replicate natural sunlight. SAD sufferers are likely to feel depressed, tired and irritable, which is a result from a lack of exposure to natural light.

Larry is a lighting system that applies the principle of bright light therapy to office workers. It consists of a lighting unit, which is placed on the desk and a sensor unit, which is worn by the

user.

Larry aims to not only provide the user with a source of bright light therapy, but also to make them aware of their time spent indoors and outdoors. The sensor unit measures the amount of time they spend outdoors and when docked in the light unit, notifies them of their time spent outdoors...leaving them as happy as Larry!

The Larry Lighting System



Front view of the light unit.
Larry can be mounted on the wall as shown here, or left free standing as shown in the main picture.

The sensor unit can be worn around the neck or clipped into the users' clothing, using the ring supplied.

The front face of the sensor unit reveals the actual sensor lens and a dual colour LED, which notifies the user of their light exposure.

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"...There's an applied style of being minimal and simple, and then there's real simplicity..." *Jonathan Ive*

ChromaZone is a fun, interactive and emotional interior mood lighting made with quality plastic and stainless steel base frame for single standing display, it is LED based. ChromaZone is designed to enhance human wellness.

The name ChromaZone derived from two words, chromatic meaning for colour and Zone refers to a interior space in any given environment. It is intended to optimise one's mood and emotion

by integrating a supportive feature such as a mood lighting in the space. By changing the intensity of the primary colors red, green and blue you can blend unlimited color combinations. Preprogrammed RF remote control enables ChromaZone to respond to command like colour sequences, chill, motion and will calm your soul, stimulate your senses and thrill your mind.

Interior Lighting

Manufacturing

Materials

Injection Moulding

Extrusion

Polycarbonate Acrylic

Stainless Steel



ChromaZone - Variable Chromatic Mood Lighting



Rechargeable base unit+stand - the unit contains electronic components include LED light module control module RF receiver and rechargeable battery .

Remote control interface+variable colour adjustment - ChromaZone can be either manually operated or remotely adjusted via a RF system The colour and light intensity are endless.

UltraBright LED Module - ChromaZone utilise latest lighting technology with ultraBright LEDs (@2000MCD) produce high brightness +pure colour with minimal heat and energy consumption.





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"...Being a designer means dreaming, imagining and visualising ideas.. and turning these ideas into our daily necessities..."

The growing numbers of parents taking their young ones out and about, creates a need for many places to provide some sort of 'family-friendly facilities'. Restorations to these existing facilities are a common strategy in the business world as a benefit to stimulate their intended audiences. Moparo, the mobile parents room is designed as modular systems comprising of two separate cubicles; a room for baby diaper changing and the other as a feeding room. The importance of

hygiene is enhanced as each cubicle is designed so bacterial germs could not be trapped in gaps, enabling ease in the cleaning processes. Moparo could be placed in a variety of environments where the need of a baby facilities in a busy area could be made possible. Convenience and privacy are also established for different users allowing an intimate and attentive experience with their baby.



MOPARO



Baby changing room includes a table top changing bed and sink rotational molded with the walls of the cubicle itself.

Seating is integrated within the feeding room. Designed to allow users to adopt into their preferred comfortable position for resting and play.

Possible signage could be placed within the transparent frame for advertisements when the two cubicles are placed together.

Mobile Parents Room

Manufacturer
Rotational Molded

Materials
HDPE



50 >

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Widjaja. .

"Creativity is about exploring different possibilities, being passionate and having fun."

The three basic elements needed to clean windows are scrubber, rubber squeegee and water. "Squi-G" is the combination of those three into one single hand tool. No more carrying buckets, hosing or spills!

It has integrated 200 ml water reservoir, enough to clean approximately 12 square metre of glass. Simple pump mechanism transports water from the reservoir to wet the microfiber cloth. The unique "squi-G" design enables the user to

control it such that at one angle, only the microfibre cloth scrubs the surface and at another angle, the rubber squeegee dries the surface.

"Squi-G" is ideal for apartment living and for cleaning internal glass windows and mirrors.

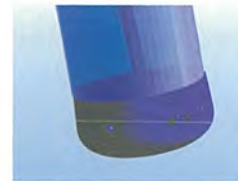
SQUI - G

Manufacturing
Injection Moulding

Materials
PP Microfibre Neoprene



Water Integrated Window Cleaning Tool



TRANSLUCENT RESERVOIR:
allows user to be aware of the water level

SCREW-LOCK CAP:
prevents leakage, grips added to aid unscrewing

NEOPRENE - MICROFIBER COMBINATION:
squeegee with better damage resistance - scrub that does not scratch the surface

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Wong

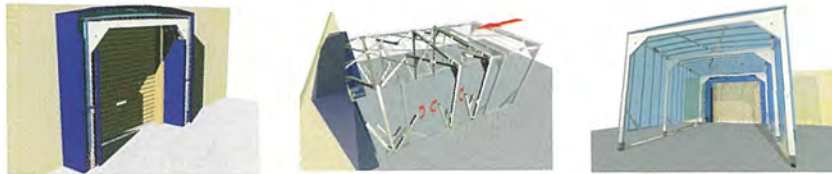
"...We are what we think. All that we are arises with our thoughts. With our thoughts we make the world (Buddha)..."

Increasing trends in high vehicle ownership have led to households having more cars than garage space available. Exposure of vehicles to harmful effects of the environment such as excess dust, wind, tree debris hail and can result in unnecessary damage to the car e.g dings.

Carage provides undercover protection for that extra car without requiring to build a permanent carport.

Carage is a retractable design that can be attached to a wall or around an existing garage frame. When requiring on-hand shelter, this product can be conveniently pulled out in minimal time by one or more users and then collapsed back into compact storage to save space.

CARGAGE-Retractable Shelter



Collapsible frame retracts in and out of storage casing through use of wheels and foldable frames. The structure is set into the final form through use of hinge and pins. Optional rope feature can be used for support in extreme wind conditions.

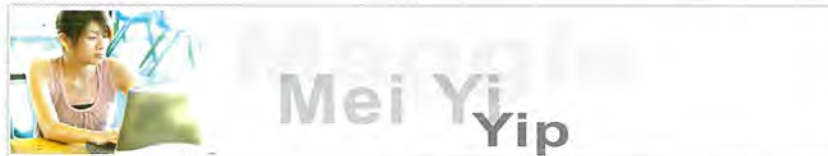
Nylon with polyurethane layer fabric is used for its strength and lightweight qualities. Fabric is coated with an anti UV finish and is also waterproof.

Ideal uses: short-medium term storage for additional car, emergency shelter for guest vehicles, outdoor workshop.



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"...A good design is not merely to improve user lifestyle or aesthetic, but should instead give users happiness and comfort..."

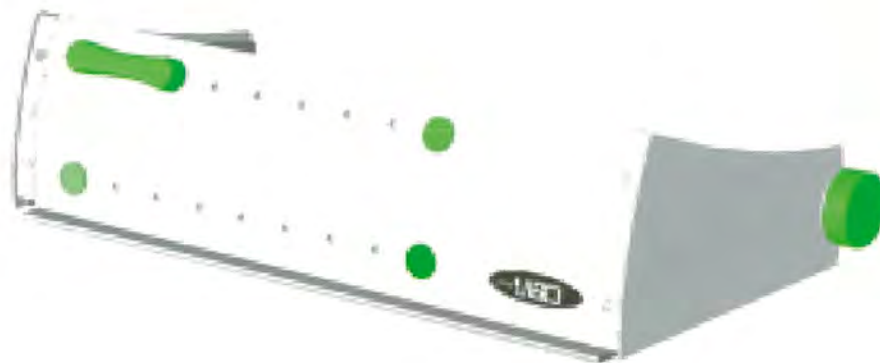
Research shows that the majority of accidents in children occur in the kitchen. As their curiosity leads them to encounter new things, many potentially dangerous accidents can occur, especially in the kitchen. The bench top and cook top area are the common places where these accidents occur and the creation of the "Viso" assess to the bench top and cook top areas.

"Viso" is a children protective barrier which will prevent children from gaining access to the bench top and cook top in the kitchen, and yet

allow minimal difficulty to adults. The barrier surrounds the front and sides of the bench top or cook top, as it will isolate the vision of children from hazardous objects on the bench top or cook top.

VISO

MAGdesign₂₀₀₃



The length is adjustable by an extendable sliding piece which is held steady by a canoe clip.

The height can also be adjusted in a similar way by sliding up and down.

It is attached with suction cups which can be easily removed for cleaning.

Children protective
barrier

Manufacturer
Extrusion /
Injection moulding

Materials
Polypropylene, Silicon, Stainless Steel



M.ZAKARIA



DESIGN

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"...I like to take everything simple & do it in my own way. Try to be helpful, perfect in drawing, involved in any form of Car & Sports..."

Limitations of conventional outfit retailing system had inspired the idea of vending an outfit. The main aim is not only to maximize sales but it also requires less handling than in-store products, no inventory cost, timely re-orders, and there is no need for designated storage space.

In stadium usually there is only one store available to sale merchandise, which is so crowded when there are lots of people want to purchase merchandise.

With vending machine, the distribution line is

spread which is better to attract more purchase.

The Pack is made from recyclable plastic (PET) with printed surface based on Team graphics. Recyclable issue is very important because its product lifetime is short. This Pack can also be applied for AFL merchandise, and be used as normal packaging for trouble-free handling in normal store, or for online purchase.



OMVP (Outfit Merchandise Vending Pack)



This pack can be used to sell 3 types of best selling outfit merchandise: T-shirt, Cap, and Scarf.

Material properties of the merchandises allow them to be rolled and compacted inside the pack.

Early idea vending machine (blue pencil) and modified vending machine for NRL merchandise.

OMVP for NRL Outfit Merchandise

Manufacturer

NRL Official Merc

Materials

INJECTION BLOW-MOULDED P.E.T





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04 Chan, Wing Tai Curtis	0410 530 501	18 Hidayat, Henry Young	0414 702 333
05 Cheevers, Scott	02 9484 3252	19 Ho, Wing Chi Mandy	0403 369 684
06 Chen, Helen	0410 588 685	20 Hsu, Jack	0416 102 663
07 Cheung, Eric Hoi Chi	0405 319 782	21 Hussin, Mohammed Khairul B	65 9794 1491
08 Cheung, Hans	0414 670 809	22 Hwang, Monica	0405 382 515
09 Chuah, Wen Yin	0411 882 641	23 Ibbotson, Scott Matthew	0422 477 899
10 Czajka, Liang	0422 873 982	24 Ko, Keumhee	0411 112 467
11 Do, Diana	0422 879 171	25 Korompis, Olivia	0421 351 481
12 Fany, Ira	0402 877 125	26 Kwan, Michael Alan Richard	0405 516 248
13 Frost, Clayton John	0414 416 216	27 Lam, Kenneth Konrad Ming Chi	0404 866 132
14 Fung, Ka Yan Gloria	0403 266 922		



28 Leung, Taniel	0416 344 630
29 Liang, John Duzhuang	0404 499 303
30 Lim, Alice Hang Sau	0410 405 268
31 Luciano, Amanda Doree	0414 495 877
32 Mccarthy, Benjamin Andrew	0401 809 299
33 Metcalf, Graeme	0414 790 235
34 Olsen, Kristoffer Leivestad	0412 438 825
35 Powell, Thomas	0402 058 889
36 Retif, Dylan Daniel	0401 279 236
37 Roper, Craig Selwyn	0421 062 059
38 Robertson Tyrone Douglas	0409 830 384
39 Sanjaya, Peter	0405 153 021
40 Sasono, Adi	0401 540 823
41 Shayeb, Carlo	0415 317 030

42 Skjoedt, Natalie Louise	9349 5882
43 Suparyo, Himawan James	0413 559 988
44 Tan, Nicholas	0410 409 881
45 Tanuputri, Anastasia Widya	0410 209 846
46 Tindall, Carl Grahame	0403 110 103
47 Tu, Jenny	0410 629 488
48 Tsai, Peter Yu-Ta	0404 229 061
49 Wang, Joice Wing-See	0416 288 306
50 Widjaja, Deviani	0404 032 144
51 Wong, Mabel	0410 552 349
52 Yip, Maggie Mei Yi	0414 388 801
53 Zakaria, Mohammad Hanif	0415 505 202

DOWNLOADING COMPLETE 100%

ACKNOWLEDGEMENTS AND THANK YOUS

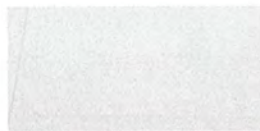
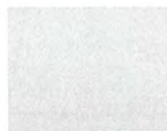


Peter

Kolasinskiz

A Sincere and well deserved special thanks goes out to Peter Kolasinskiz for his ever enduring patience and helping hands making it possible for the development of the the projects showcased in the exhibition. Thank you Peter for your help.

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Another well deserved and special thanks goes to all those people who made it possible for the success of this exhibition. Thank you so much for the extra hard work put in to making the success of this years exhibition.

We like to especially thank:

LEAD ORGANISERS

Carl tindall

Nick Tan

Thomas Powell

CATALOGUE TEAM

Curtis Chan

Alice Lim

Peter Tsai

James Suparyo

Chris Choi

WARNING SYSTEM MELTDOWN INITIATED_>

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Industrial Design program structure (from 2004)

Year 1

Session 1

Industrial Design Fundamentals
Industrial Design Communication A
Safe Workshop Practices
Computers and Information Technology
General Mathematics 1B

Session 2

Industrial Design Studio 1
Industrial Design Communication B
Materials and Technology Workshop A
History of Industrial Design
Statistics SM

Year 2

Session 1

Design Studio 2A
Industrial Design Communication C
Ergonomics
Marketing Fundamentals

Session 2

Design Studio 2B
Computer Applications in Industrial Design
Materials and Technology Workshop B
Industrial Design Theory and Process

Year 3

Session 1

Design Studio 3A
Materials and Technology Workshop C
Consumer Behaviour
Marketing Research

Session 2

Design Studio 3B
Electives
General Education electives

Year 4

Session 1

Industrial Design Studio 4
Project Research
Industrial Design Management & Practice
Electives

Session 2

Project
Electives
General Education electives

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