sense

Designs that just make *sense*

UNSW Industrial Design
Graduation Exhibition 2025

Catalogue

sense

Designs that just make *sense*

UNSW SYDNEY

BE GradEx 2025

Director's Message

It is with great pleasure that I congratulate the 2025 graduating cohorts of the Bachelor of Industrial Design (Honours) and the Bachelor of Design in Industrial Design. This year, 10 Honours graduates and 37 from the undergraduate program present their work as part of SENSE, the Industrial Design showcase within BE GradEx, the UNSW Built Environment Graduation Exhibition. Together, these cohorts embody the strength of our Industrial Design community at UNSW and its continuing commitment to design that improves lives and makes a positive difference in the world.

The 10 Honours projects featured in this catalogue demonstrate innovation, empathy, and professional skill applied to real-world challenges. Each project reflects thoughtful engagement with the material, technological, and social contexts that shape design. Collectively, they show how creative resilience and critical reflection can generate outcomes of enduring value and purpose.

These accomplishments reflect the shared efforts of our students, my colleagues in the Industrial Design academic team – Professor Oya Demirbilek, Dr Miles Park, Dr Christian Tietz, Mr Gonzalo Portas, Ms Danielah Martinez, and Mr Edward Ko – and our highly skilled technical staff in the Design Futures Lab. Together, this community of practice has fostered an environment grounded in care, collaboration, and intellectual growth.

To all our graduates, my warmest congratulations. May you continue to design with insight, imagination, and integrity as you shape the future through your work.

Dr Mariano Ramirez

Associate Professor and
Discipline Director

Convenor's Message

This catalogue presents a snapshot of each Industrial Design Honours student's final design project, completed as part of the Capstone studio course in the Bachelor of Industrial Design (Hons) at UNSW.

Each project begins with a period of discovery research in the first part of the year. This allows students to build a deep understanding of their chosen topic and uncover insights that can lead to meaningful design opportunities. These opportunities are then translated into a design brief and developed through an iterative design process. Early concept sketches, user experience mock-up and sketch models help explore creative possibilities and test initial ideas, which then evolve into a refined design proposal that balances technical and functional requirements with user needs and experience. The final stage focuses on detailed refinement, documentation, and preparation of the design for manufacture and presentation.

On behalf of my colleagues, I would like to thank the students for their consistent effort, dedication, and professionalism throughout the year. We also extend our thanks to the families and friends who have supported them on this journey.

Dr Miles Park

Capstone Project Course Convenor

Bachelor of Industrial Design (Honours) Graduates 2025

Tappy Tunes

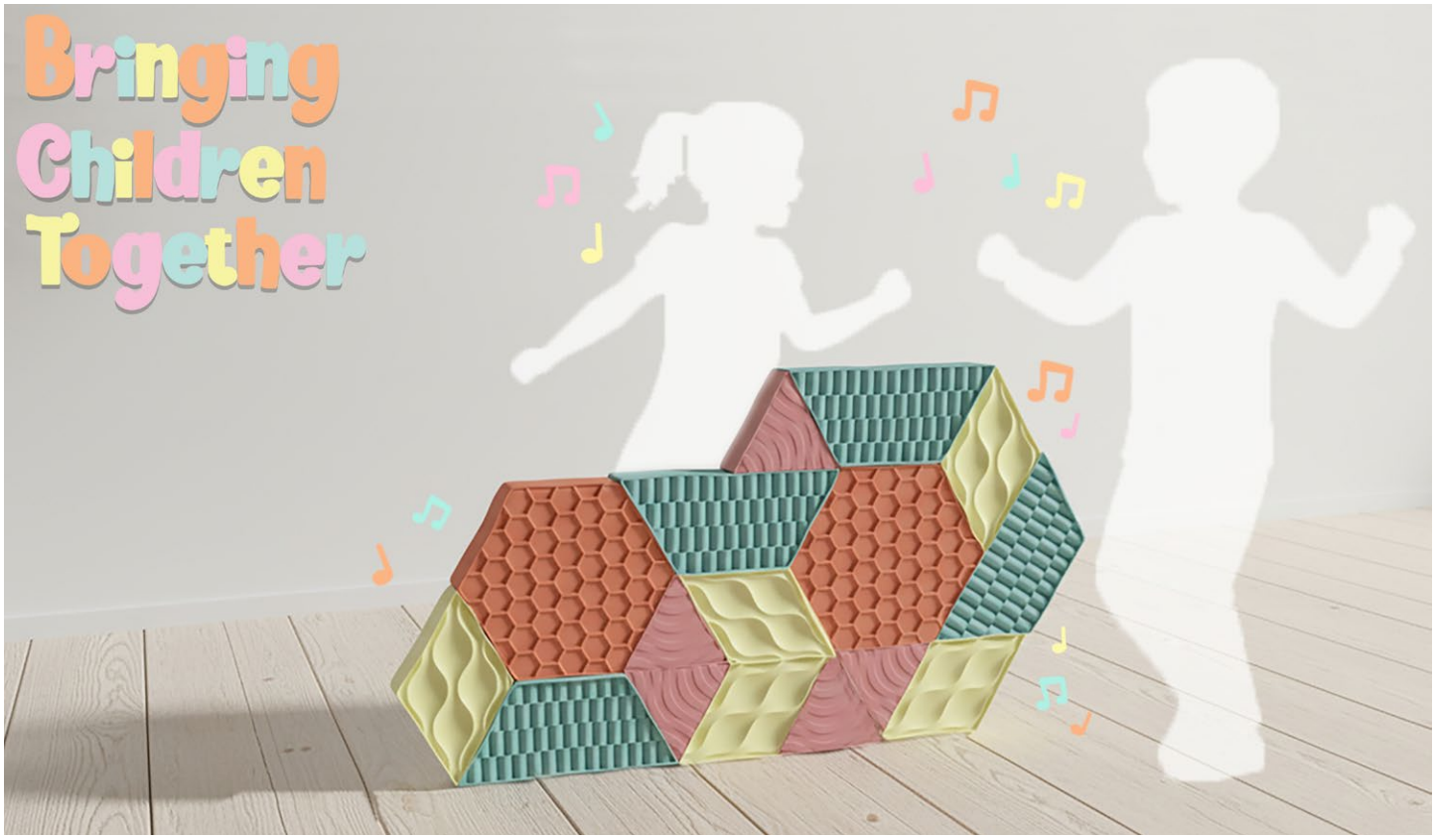
Gentle play for shared connection

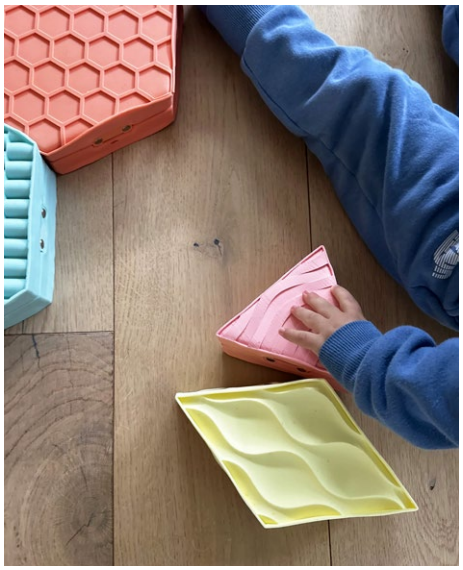
Phoebe Anevski

Bachelor of Industrial Design (Honours), 2025

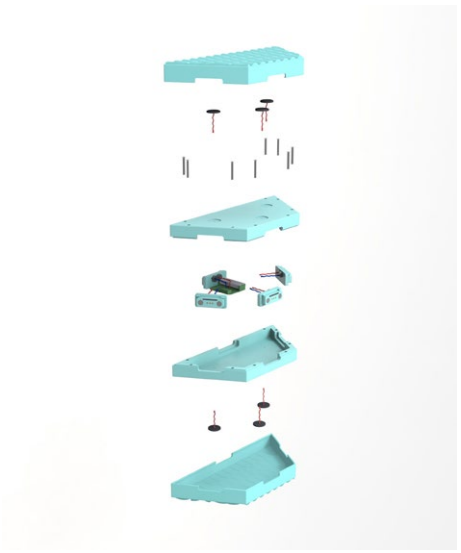
Neurodivergent children benefit from play environments that encourage meaningful social engagement, without overwhelming sensory input. Tappy Tunes has been thoughtfully designed to support this need by fostering joint attention, emotional expression, and cooperative play. The product comprises four tessellating silicone shapes, each with distinct textures and integrated magnetic and electrical connections that activate soft, pre-set musical tones when joined.

The tactile surfaces provide soothing sensory stimulation, while the musical feedback serves as an accessible communication medium, enabling children to express emotions and share experiences non-verbally. Through turn-taking, imitation, and shared discovery, Tappy Tunes encourages connection and reduces social anxiety by offering a predictable, calming, and engaging interaction. This flexible, child-led system supports diverse communication styles and promotes confidence, collaboration, and meaningful social development.


Bringing
Children
Together




TAPPY TUNES
3~12 Ages
TAPPY TUNES
24 Pieces



Coffee Juicer

Simple espresso for everyday brewing

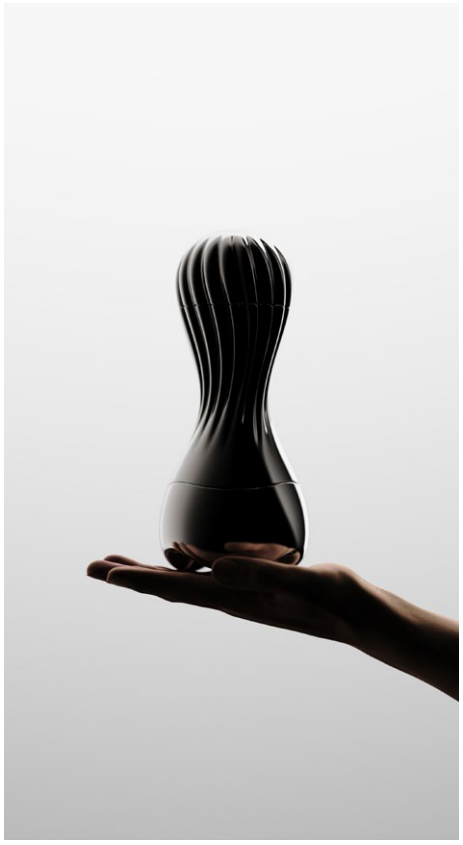
Arpad Bogdan

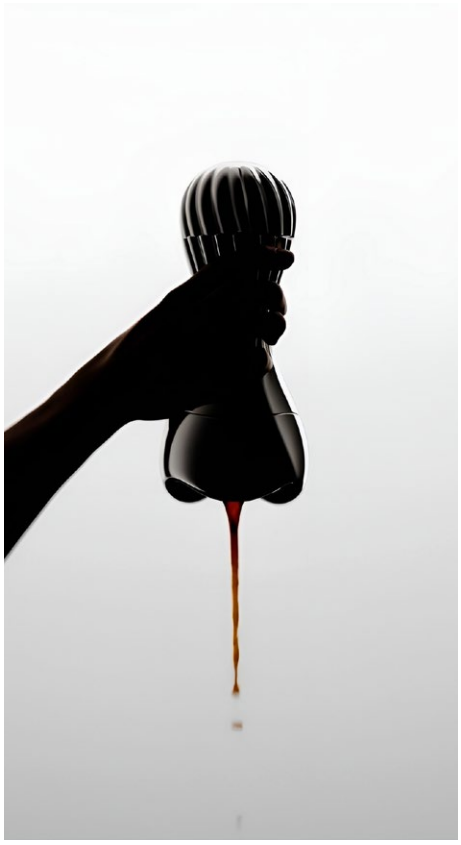
Bachelor of Industrial Design (Honours), 2025

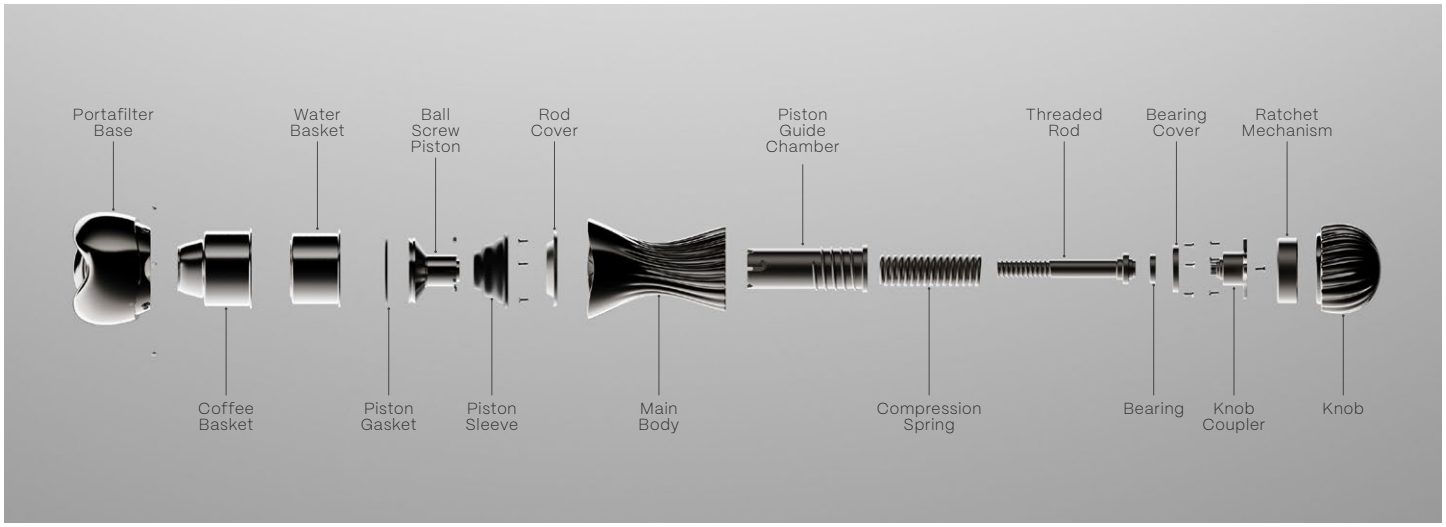
For most people, making coffee at home is complicated and stressful. The Coffee Juicer is a reimagined manual espresso maker designed for beginners, guided by the principles of confidence, clarity, and simplicity. It's made for everyday users who find traditional machines intimidating, expensive and impractical, simplifying the process by removing unnecessary parts and utilising what you already own.

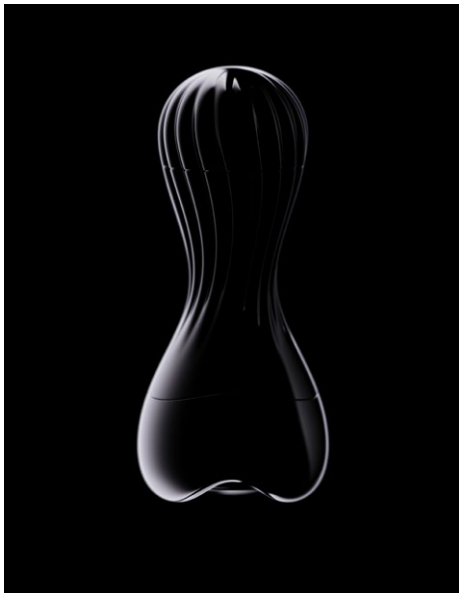
Optimised for a precise 1.5-shot extraction (12–14 g dose), it delivers a rich, balanced espresso with forgiving consistency. Its spring-powered piston is activated through a twistable knob and ratchet mechanism, providing mechanical satisfaction and precise, consistent pressure. A two-layer basket integrates tamping and showerscreen functions, simplifying preparation while ensuring a cleaner, faster brew.

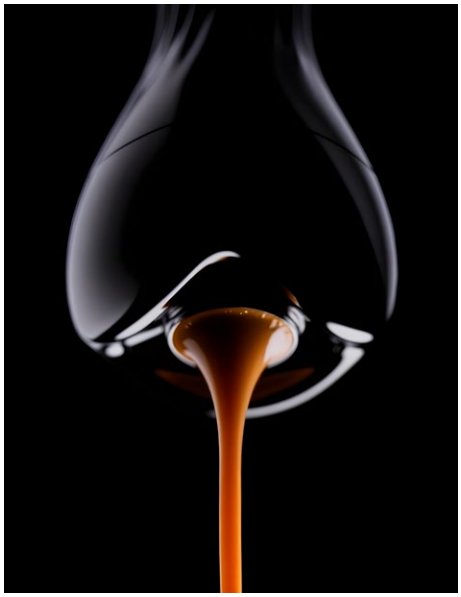
Approachable, intuitive, and iconic, it redefines home espresso, making it simple, mechanical, and truly for everyone.






Portafilter Base
Coffee Basket
Water Basket
Ball Screw Piston
Piston Gasket
Piston Sleeve
Rod Cover
Main Body
Piston Guide Chamber
Compression Spring
Threaded Rod
Bearing
Bearing Cover
Knob Coupler
Ratchet Mechanism
Knob





Equa

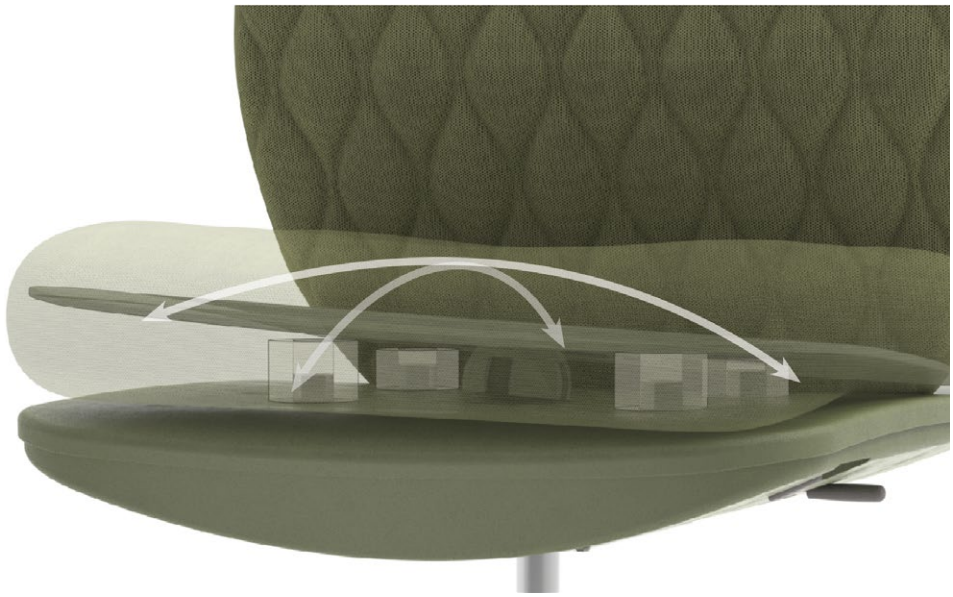
Sensory comfort for focused work

Christina Chen

Bachelor of Industrial Design (Honours), 2025

Design solutions for sensory processing differences often focus on children, leaving adults without suitable options, especially in overstimulating open-plan workplaces where stress and discomfort are common. This project asks: How might we design a task chair that supports adults with sensory processing differences while remaining desirable and usable for everyone?

Developed through co-design with neurodivergent adults and experts, including an occupational therapist, neuro-inclusion consultant, and designers from Vitra and Wilkhahn, the Equa chair embeds sensory strategies within a refined, ergonomic form. Arms fold out into weighted lap pads for grounding, a toggleable three-dimensional dynamic-tilt seat pan relieves restlessness through movement, and an adjustable cocooning headrest provides acoustic and visual relief. Aligned with core ergonomic principles, these features enhance posture, comfort, and focus, while limited components, easy disassembly, and removable covers extend the product's lifespan.



Gentle Lift

Supportive transfers with ease

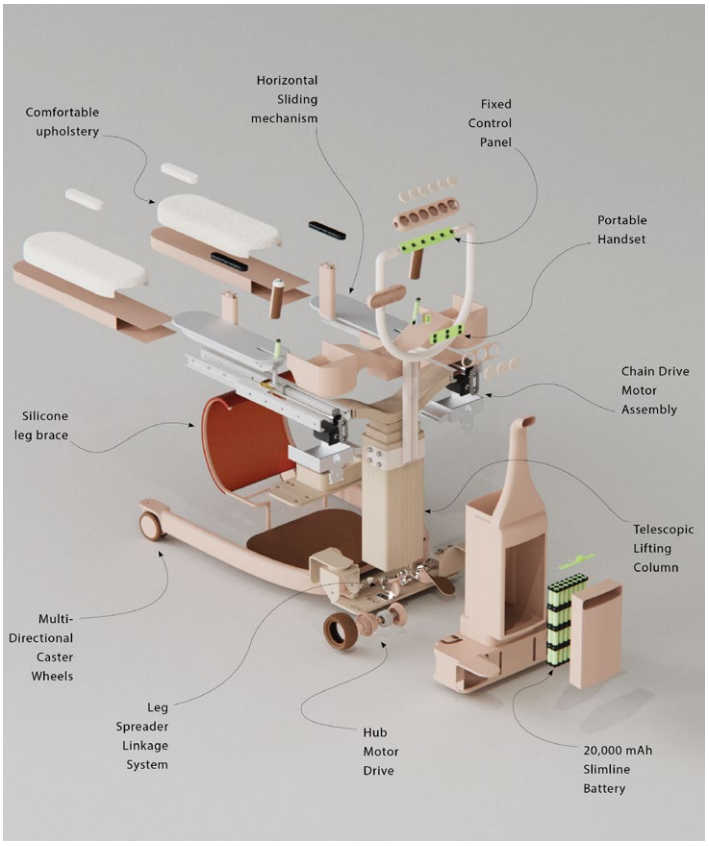
William Kirchen

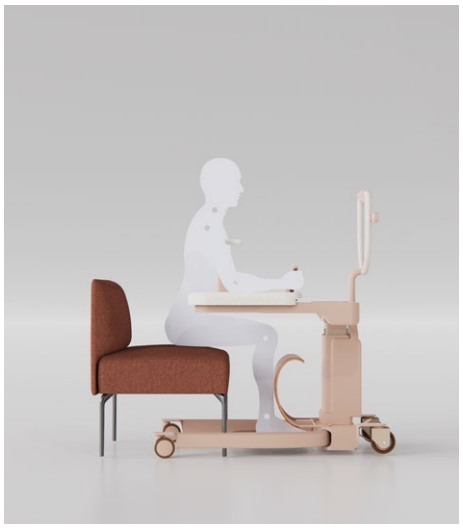
Bachelor of Industrial Design (Honours), 2025

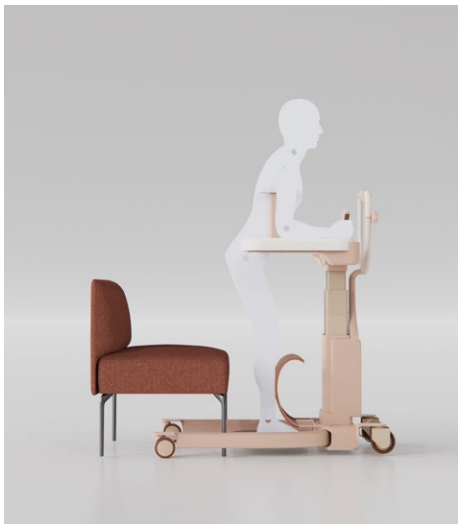
Many older adults and individuals with limited mobility encounter challenges when standing or transferring from one position to another. This process can be exhausting and stressful, and may require assistance from a caregiver as well as bulky equipment that may not be suitable for a home environment.

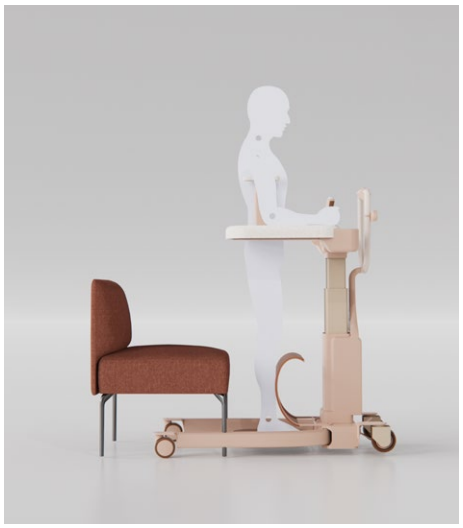
Gentle Lift addresses these issues by prioritising comfort and ease of use. Its design features soft, ergonomic touchpoints and intuitive controls, ensuring a dignified transfer experience. The slim frame fits into small spaces, while powered wheels facilitate movement over difficult surfaces.

By reducing the physical strain on caregivers and promoting user independence, Gentle Lift transforms potentially stressful tasks into reassuring and empowering daily routines.


Comfortable upholstery
Horizontal Sliding mechanism
Fixed Control Panel
Portable Handset
Chain Drive Motor Assembly
Silicone leg brace
Telescopic Lifting Column
Multi-Directional Caster Wheels
Leg Spreader Linkage System
Hub Motor Drive
20,000 mAh Slimline Battery





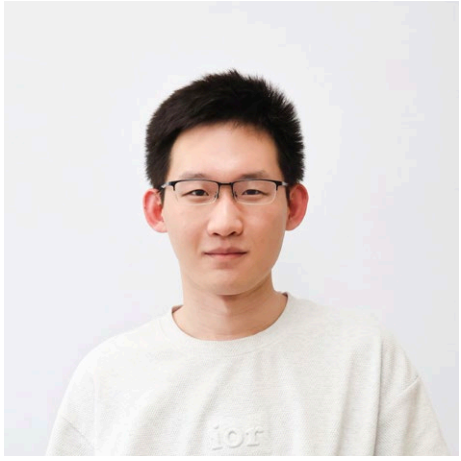


LightRider

Helmet convenience for city riders

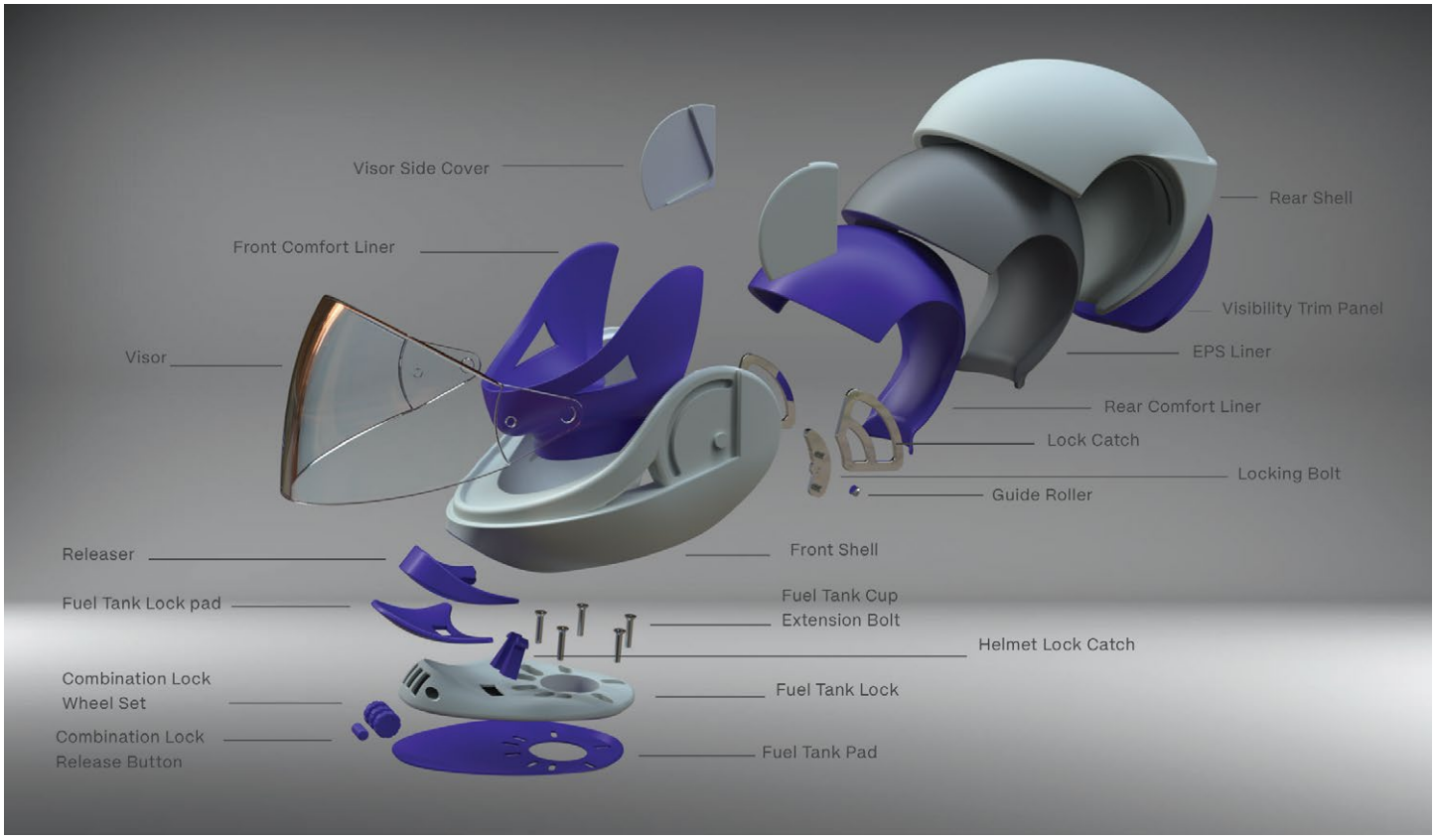
Yaheng Li

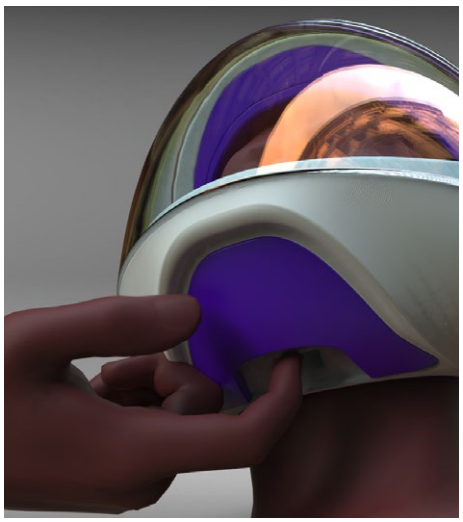
Bachelor of Industrial Design (Honours), 2025

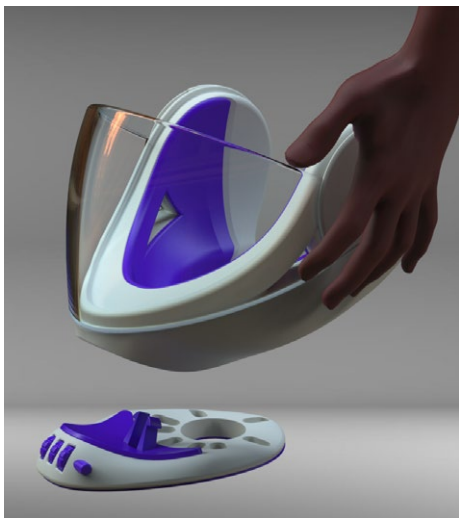


In cities where motorcycles represent freedom and practicality, helmets often compromise that experience. Their bulk, awkward handling, and incompatibility with glasses or gloves make them a daily inconvenience for many riders. LightRider addresses these challenges by rethinking how helmets fit into the rhythms of urban life.

The design separates the shell into front and rear sections, allowing users to put it on or remove it with ease and comfort. A compact combination lock system mounted on the fuel tank secures, stores, and protects the helmet when parked, removing the need to carry it anywhere. By merging safety, convenience, and comfort into one cohesive system, LightRider transforms the helmet into an adaptive companion that restores mobility, independence, and effortless freedom to modern motorcycling.


Visor Side Cover
Front Comfort Liner
Visor
Rear Shell
Visibility Trim Panel
EPS Liner
Rear Comfort Liner
Lock Catch
Locking Bolt
Guide Roller
Releaser
Front Shell
Fuel Tank Lock pad
Fuel Tank Cup
Extension Bolt
Helmet Lock Catch
Combination Lock
Wheel Set
Fuel Tank Lock
Combination Lock
Release Button
Fuel Tank Pad





VertiGrow

Fresh produce in any interior

Anstey Lindsey

Bachelor of Industrial Design (Honours), 2025

In dense urban environments where access to natural light and space is limited, growing fresh produce at home can be difficult. VertiGrow responds to this challenge with a modular indoor hydroponic system designed for flexibility, efficiency, and aesthetic appeal.

Starting with a single planter, the system can be expanded vertically or horizontally to suit different interiors and living arrangements. Its soil-free, LED-integrated design delivers a clean, water-efficient, and low-maintenance method for growing herbs, leafy greens, small fruits, and flowers throughout the year.

The companion app provides detailed monitoring of water levels, nutrient balance, and lighting schedules, while AI-driven insights assist in maintaining optimal plant health. By uniting technology, convenience, and thoughtful design, VertiGrow transforms compact spaces into lush, productive indoor ecosystems that enrich everyday life.

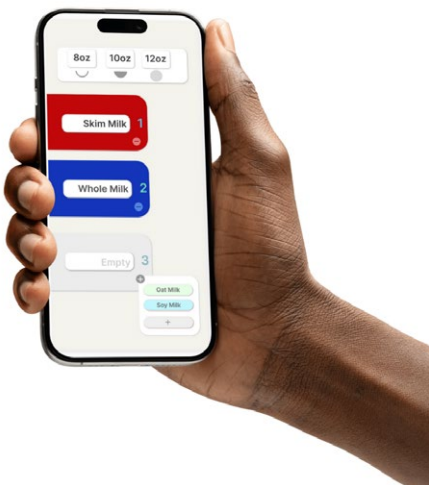
ECOSU

Refill culture for modern café service

Audrey Purnama

Bachelor of Industrial Design (Honours), 2025

Indonesia's fast-growing coffee shop sector faces a hidden waste crisis, with millions of milk cartons that are difficult to recycle discarded each year. Limited recycling infrastructure means most are burned or sent to landfill, while environmental responsibility remains a low business priority among small cafés. Inspired by Indonesia's local water refill culture born from the absence of a municipal water system Ecosu reimagines milk delivery through a portable, refillable dispensing and cooling system. Designed for pop-up and mobile cafés, Ecosu follows a use-and-return model featuring a dispenser, portable cooling unit, and reusable 3-litre milk jugs. This closed-loop system cuts packaging waste, supports local dairy cooperatives, and encourages a cleaner, more efficient, and community-driven supply chain across Indonesia's growing café network.


8oz
10oz
12oz
Skim Milk
1
Whole Milk
2
Empty
3
Oat Milk
Soy Milk

Flutter

Baking made simple and confident

Renee Sibenaler

Bachelor of Industrial Design (Honours), 2025

Baking often presents challenges such as inconsistent results, excessive mess, and difficulty managing timing. Flutter is designed to address these issues through asimple yet innovative solution tailored to novice bakers. At its core, it functions as a mixer, but redefines the appliance as an all in one baking system equipped with a built in touchscreen, digital scale, and timer.

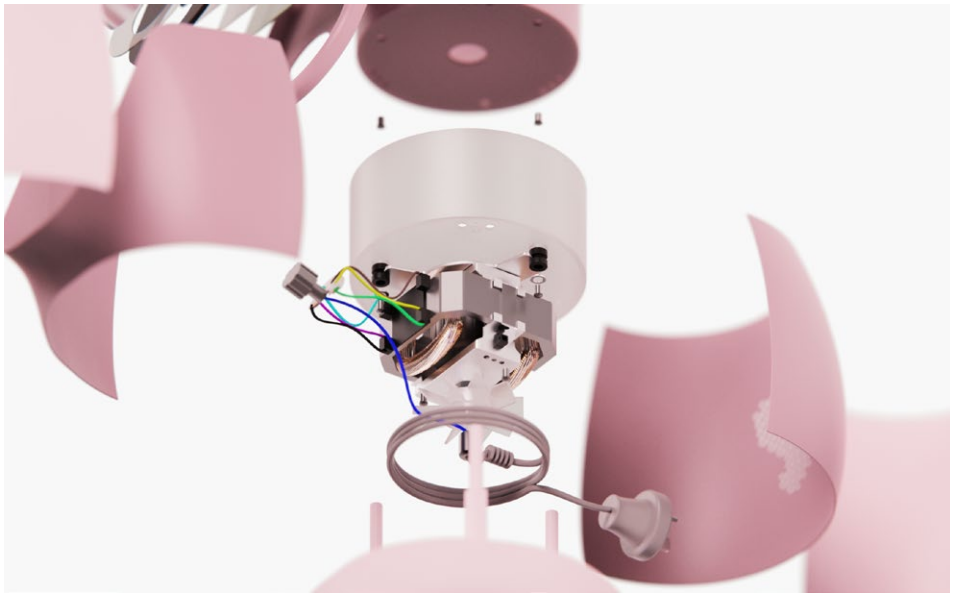
Its removable lid, spatula accessories, and butterfly shaped flat beater ensure efficient, precise, and mess free mixing. Integrated cable management within the base maintains a tidy workspace, while the availability of multiple colour variations broadens its appeal to a wider audience. By consolidating multiple tools into a single bowl, the design minimizes clutter and simplifies cleanup. Flutter encourages independent learning, helping beginners build confidence, develop essential skills, and take pride in every bake.


Measure
71.03


Time
Start | Stop
2:00
Minutes
Seconds
Popular Timers


Mix


Main Housing Unit
Mixing Bowl
Splash Guard
Measuring Cup Lid
Standard Whisk
Interchangeable Spatula Set



Re:Pair

Repairable audio for everyday use

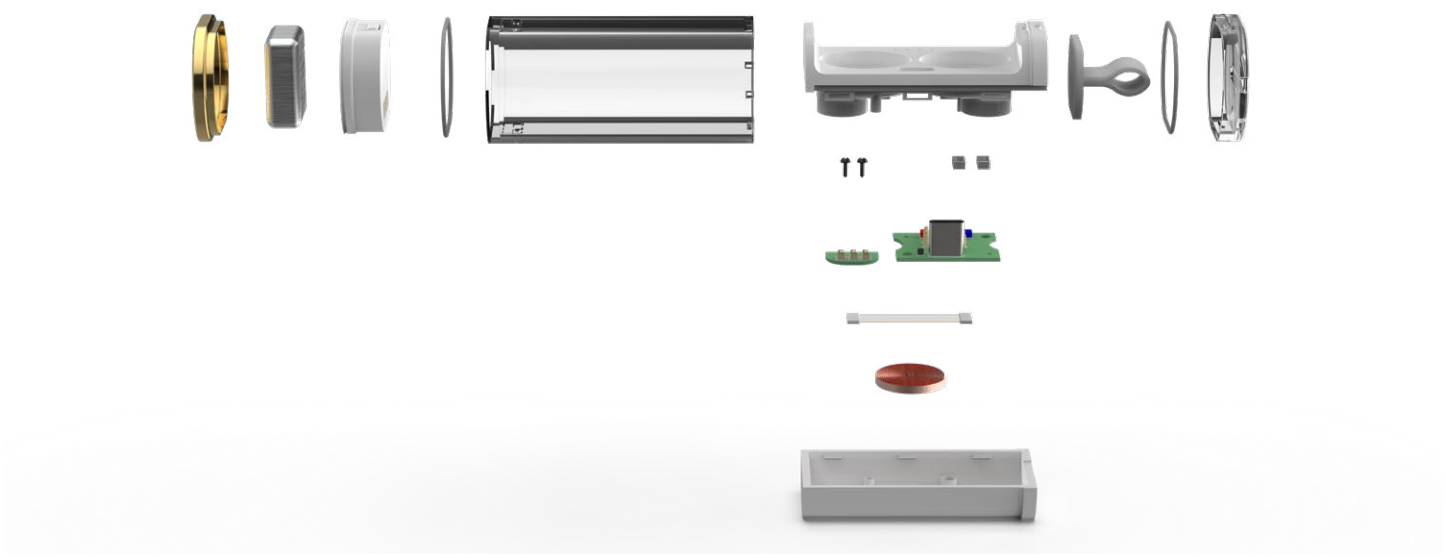
Quince So

Bachelor of Industrial Design (Honours), 2025

Most wireless earbuds are designed for disposal and thrown away when the battery degrades. Re:Pair modular earbuds embrace a Design for Repair philosophy by making repair intuitive and built into the design.

Featuring replaceable batteries and a simple disassembly system for easy upgrades and maintenance. The silicone strap, push-to-open cap, and water-resistant case provide tactile interaction while protecting components from daily wear.

Re:Pair demonstrates how thoughtful product design can empower users and redefine how we care for small consumer electronics. By extending the lifespan of everyday devices, Re:Pair reduces environmental impact through product longevity, shifting consumer intention from throw-away culture to responsible ownership and encouraging a deeper, more lasting connection between users and their products.



DoorBee

Smart security for shared living

Grace Wong

Bachelor of Industrial Design (Honours), 2025

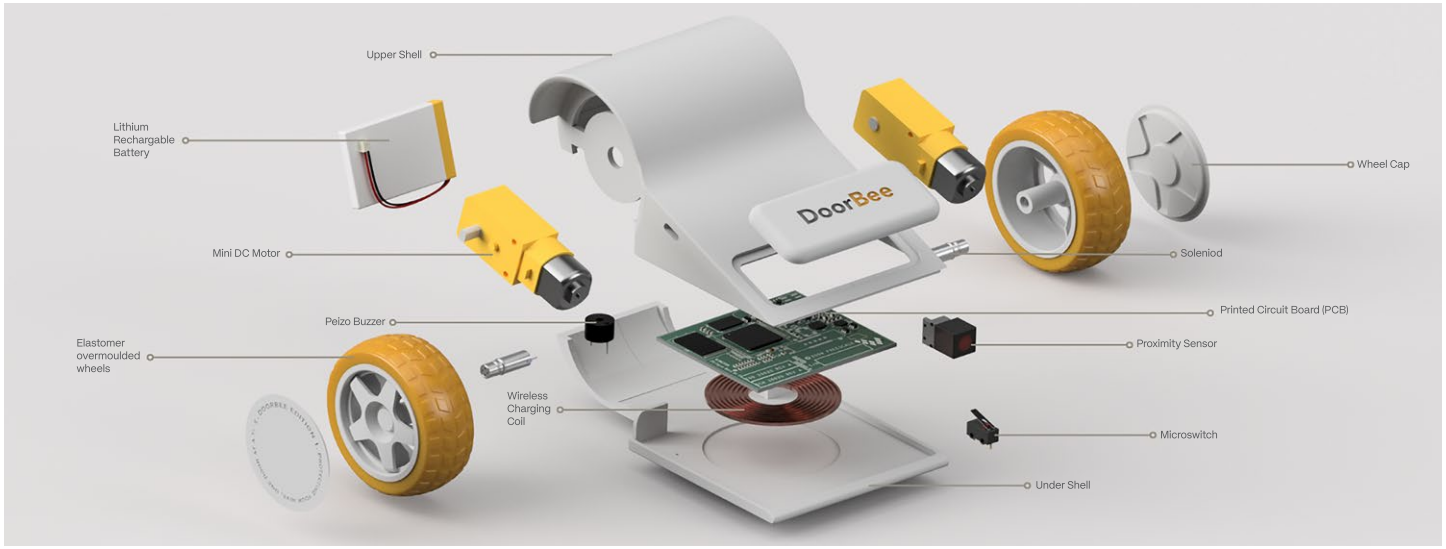
In many shared or short-term living spaces, individuals lack access to permanent security or monitoring systems. DoorBee addresses this need as a compact, intelligent door wedge designed to provide both physical protection and digital awareness wherever you stay. Its high-friction base forms a secure physical barrier against forced entry, while integrated motion and pressure sensors continuously detect unusual door activity.

Through Wi-Fi or Bluetooth, DoorBee sends instant alerts to your smartphone, ensuring immediate awareness of potential threats. Portable and durable, it recharges conveniently via USB-C and deploys in seconds on virtually any door. Transforming an ordinary wedge into a discreet, dependable security device, DoorBee empowers users to travel, live, and rest with greater peace of mind.

DoorBee.... Protecting your hive, one door at a time.


RBEE EDITION 1. PROTECTING
YOUR HIVE, ONE D


Door
Bee


Upper Shell
Lithium
Rechargable
Battery
Mini DC Motor
Peizo Buzzer
Elastomer
overmoulded
wheels
Wireless
Charging
Coil
DoorBee
Wheel Cap
Soleniod
Printed Circuit Board (PCB)
Proximity Sensor
Microswitch
Under Shell

Bachelor of Industrial Design (Honours) Graduates 2025

Phoebe Anevski

phoebeanevski12@gmail.com
0452542001

https://www.linkedin.com/in/phoebe-anevski-6483ba2b2/

Arpad Bogdan

arpi.bogdan@gmail.com
0480184520
Instagram: arpad.official

https://www.linkedin.com/in/arpad-bogdan-03317427a/

Christina Chen

christinachendesign@gmail.com
0423882099
Instagram: christinachendesign

https://www.linkedin.com/in/christina-chen-404b12338/

Audrey Purnama

audreypurnamaa@gmail.com
0458442187
Instagram: designed_byap

https://www.linkedin.com/in/audreypurnama/

Renee Sibenaler

rsibenaler30335@gmail.com
0490483308

https://www.linkedin.com/in/renee-sibenaler-88908532b/

Quince So

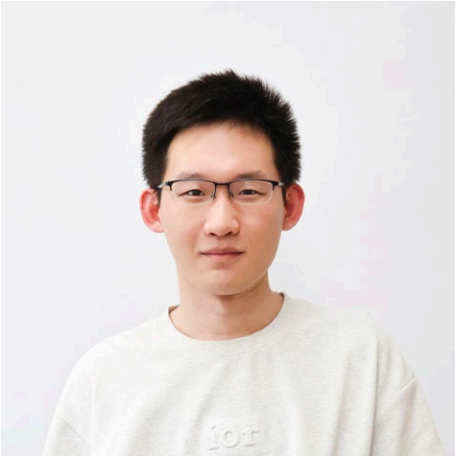
quinceso.design@gmail.com
0422705126
Instagram: quinceso.design

https://www.linkedin.com/in/quinceso/

William Kirchen

williamkirchen2@gmail.com
0401090305

https://www.linkedin.com/in/william-kirchen-3a1041145



Yaheng Li

liyaheng_zz@163.com
0416550330

https://www.linkedin.com/in/%E4%BA%9A%E8%A1%A1-%E6%9D%8E-121b70380/

Anstey Lindsey

anstey@lindsey.id.au
0403091728

https://www.linkedin.com/in/anstey-lindsey-827a172a4/

Grace Wong

gracewong3585@gmail.com
0478508719
Instagram: gracetogracestudios

https://www.linkedin.com/in/grace-wong-4b307b199/

Acknowledgments

We, the Bachelor of Industrial Design (Honours) graduating class of 2025, wish to express our profound appreciation to both the Industrial Design Academic Staff and the Design Futures Lab Professional Staff at UNSW. Their collective mentorship, critical guidance, and technical support were essential in fostering a comprehensive learning environment, equipping our cohort with the theoretical knowledge and practical skills necessary for professional practice.

Industrial Design Academic Staff

Dr Mariano Ramirez, Associate Professor and Discipline Director
Dr Oya Demirbilek, Professor
Dr Miles Park, Senior Lecturer
Dr Christian Tietz, Senior Lecturer
Mr Gonzalo Portas, Lecturer
Ms Danielah Martinez, Associate Lecturer
Mr Edward Ko, Associate Lecturer
Ms Anahita Jamshidi-Fard, Casual Academic
Ms Caitlin Neil, Casual Academic
Mr David Garberg, Casual Academic
Ms Dora Ferenczi, Casual Academic
Dr Frederique Sunstrum, Casual Academic
Mr George Papadogiannis, Casual Academic
Mr Giles Day, Casual Academic
Ms Greta Saggus, Casual Academic
Mr Joshua Cope-Summerfield, Casual Academic
Ms Min Kong, Casual Academic
Mr Michael Hoppe, Casual Academic
Mr Mitchell Brown, Casual Academic
Mr Ned Mason, Casual Academic
Mr Robert Walsh, Casual Academic
Mr Sam Weise, Casual Academic
Ms Sarah Howard, Casual Academic
Mr Simon Terry, Casual Academic
Mr Thomas Marlay, Casual Academic
Mr Tom Skeehan, Casual Academic

Design Futures Lab Professional Staff

Ms Nichola Jephcott, Lab Manager
Mr George Papadogiannis, Team Leader and Technical Officer Metal
Mr Gabriel Undery, Technical Officer Wood
Mr Richard Blackwell, Coordinator Robotic Manufacturing
Mr Nic Snowden, Technical Officer Robotic Manufacturing
Dr Vaughan Wozniak-O'Connor, Technical Officer Digital Fabrication
Mr Charlie Cummings-Booth, Technical Officer Plastics
Mx Max King, Technical Officer

Sponsors

Platinum

KING

Gold

GOOD DESIGN AUSTRALIA

Silver

Breville

KROST.

SHAPING RETAIL

POP THIS

Bronze

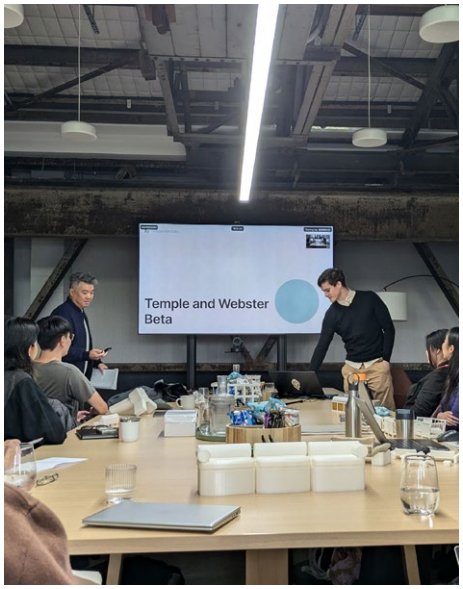
baresque

sf street furniture australia

TEMPLE & WEBSTER

Tilt Industrial Design

Class Photos


Temple and Webster
Beta


Summary

Exhibition Photos

Industrial Design
Honours Cohort 2025

Phoebe Anevski	Tappy Tunes
Arpad Bogdan	Coffee Juicer
Christina Chen	Equa
William Kirchen	Gentle Lift
Yaheng Li	LightRider
Anstey Lindsey	VertiGrow
Audrey Purnama	ECOSU
Renee Sibenaler	Flutter
Quince So	Re:Pair
Grace Wong	DoorBee