

EDIC 26

PROJECT SHOWCASE

PROJECTS, PROTOTYPES & INNOVATION

17 APRIL 2026

4-8 PM

BLOCK EA ATRIUM
9 ENGINEERING DRIVE 1
SINGAPORE 117575

Engineering Design and Innovation Centre

The Engineering Design and Innovation Centre (EDIC) was established in 2009 to provide a holistic design and engineering education to students, as well as to support industry partners to innovate and address complex challenges. It offers the **Innovation & Design Programme (iDP)** for undergraduate students and the **Master of Science in Engineering Design & Innovation (MSc EDI)** for postgraduate students.

The iDP is EDIC's flagship undergraduate programme that aims to train graduates with an entrepreneurial mindset who understand innovation and are able to apply their knowledge and skills to solve problems or design new products, services, and experiences. In iDP, students from different disciplines learn various tools and processes for ideation and design by working together on hands-on projects that have real-world impact. Student who are keen on entrepreneurship are encouraged to further develop their projects for commercialisation.

The MSc EDI is designed for professionals who already have working knowledge in their own respective disciplines. It trains students to work together, making the most of their creativity and passion to solve societal challenges as they learn to cultivate an entrepreneurial mindset, develop understanding of technology-based design and innovation strategies, and apply design thinking and product design methodologies to develop innovative solutions.

This showcase features projects from final year projects in iDP's CDE4301 Innovation & Design Capstone and CDE4301A Ideas to Start-up courses, as well as projects from the MSc EDI's CDE5301 Interdisciplinary Design

Complete your set! Collect one sticker from each of the 8 project themes to enter our LUCKY DRAW.

Find out more about the projects on our microsite:



Layout of Exhibits

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for this project
theme here

Immersive Experiences

- 1 GolfVision: AI-driven augmented reality sports optics
- 2 Wearable foot haptic interface for terrain simulation of VR
- 3 AI-assisted evaluation for pilot monitoring training in VR-based flight simulators
- 4 ELEVIA: reimagining the luxury hotel check-in experience
- 5 Developing accurate localization systems for immersive home audio experiences

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Ideas to Start-up

- 6 Thermal Floater
- 7 Accudoc
- 8 SoleMate
- 9 BodyIQ
- 10 EasyConvo
- 11 Exantro
- 12 LiftAuth

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theme here

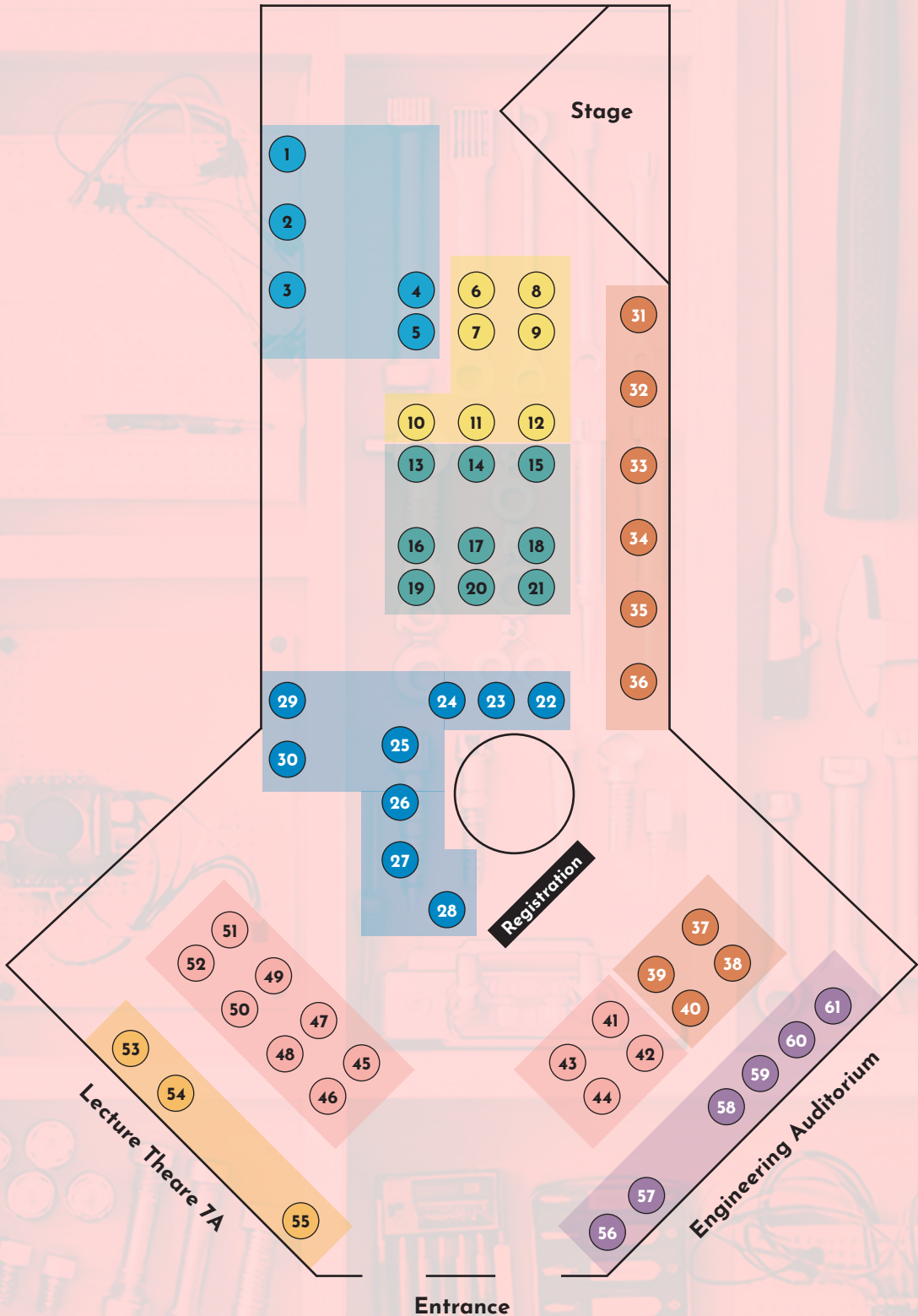
Smart Solutions & Sustainability

- 13 EcoSpool
- 14 Fabrication of grid resolution standards with proton beam writing
- 15 LCA-I
- 16 Koola: smart autonomous windows
- 17 FieldNote for AWWA School
- 18 Physics-informed machine learning: applications in chemical engineering
- 19 Scalable concentrated solar power
- 20 The Living Filter: plant-microbe system for indoor air purification
- 21 Correlative AFM-TEM imaging of suspended 2D materials on commercial TEM grids

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Robotics & Automation

- 22 Haptic synchronization training for robotic surgery application
- 23 Compact power distribution system for industrial unmanned surface vessel
- 24 RoboMaster bipedal wheel-legged robot
- 25 D.A.R.T. autonomous projectile launcher
- 26 Automation of harvesting leafy greens in indoor hydroponic farms
- 27 MEDetect: automated inspection of surgical tools
- 28 BoxBunny: an intelligent boxing trainer
- 29 Industrial mobile manipulator for Innovation & Design Hub
- 30 JellyBot: underwater surveillance soft robotics



Healthcare & Wellbeing

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theme here

- 31 NightDrift
- 32 Kinetix
- 33 Enhancing postpartum haemorrhage training for medical students
- 34 Wearable sensors for mild cognitive impairment
- 35 Wearable blood pressure monitoring
- 36 Reimagining underutilized carpark levels for community wellness at Clementi Peaks
- 37 Team Colocorrect: safer, faster, better colonoscopy
- 38 REFLOW by Vascura: restoring flow, improving lives
- 39 Team UroClear: leave no stone behind
- 40 JointForce: restoring natural alignment in knee replacement

CDE5301 Interdisciplinary Design Project – Design & Research

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- 41 AirBender: a better ride to work
- 42 Attention: the desktop companion for zero-friction deep work
- 43 CartX: next-generation airport personal mobility solution
- 44 CLARITY: AI-powered job pairing system
- 45 EmotiMate
- 46 Foster: where pre-loved toys find a new home
- 47 LuLu
- 48 PulsePush
- 49 SmartFret
- 50 The Human Library: a Singaporean map of stories
- 51 Zero to Robot
- 52 Zzz Pillow Book: multisensory bedtime ritual

Future Mobility

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for this project
theme here

- 53 Self-balancing bicycle
- 54 Re-design of chassis and fairings for ICE-to-electric motorbike conversion
- 55 NUS Formula SAE

Space Systems

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for this project
theme here

- 56 Team LeoNUS: CanSat Competition 2026
- 57 Shared-aperture stacked-patch electronically steered antenna for Ku band low earth orbit satellites
- 58 Galassia-5 software-hardware integration framework
- 59 Galassia-5 direct to VSAT Ku band downlink
- 60 Galassia-5 mechanical design and environmental testing
- 61 Galassia-5 space-based Ku band patch antenna array



Contact Us

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