



Waipapa
Taumata Rau
University
of Auckland

Final Year Project Display Day 2026



Thursday, 22 October 2026

Waipapa Taumata Rau | University of Auckland
Te Herenga Auaha | Faculty of Engineering and Design
Buildings 401 & 405
Entry via 20 Symonds Street

Featured Departments

Chemical and Materials Engineering
Civil and Environmental Engineering
Electrical, Computer, and Software Engineering
Engineering Science and Biomedical Engineering
Mechanical and Mechatronics Engineering



Contents

- 08 Chemical and Materials Engineering
- 10 Civil and Environmental Engineering
- 20 Electrical, Computer and Software Engineering
- 34 Engineering Science and Biomedical Engineering
- 40 Mechanical and Mechatronics Engineering

Kia ora koutou.

It is my pleasure and privilege to welcome you to our 2026 Final Year Project Display Day.

The Final Year Project represents a significant milestone in our Bachelor of Engineering degree. These yearlong research projects draw upon the knowledge and expertise that the students have attained during their degree, applied to solve real-world problems. The Final Year Project Display Day is always an exciting time to see engineering theory come to life.

The projects provide an important opportunity for students to realise their capacity and build confidence in their skills as independent learners. We put a strong emphasis on getting our students career-ready once they graduate, so it is great to see the range of industry sponsors who continue to get involved with the projects each year.

I hope you will join us in proudly celebrating everything that our students have achieved this year.



ASSOCIATE PROFESSOR RICHARD CLARKE
Manukura Auaha | Dean of Engineering and Design
Waipapa Taumata Rau | University of Auckland



About the Final Year Project



The Final Year Project, formerly recognised as the Part IV Research Project, is a core component of our Bachelor of Engineering (Honours) degree. This involves final year Engineering students working — usually in pairs — on a research project over the course of the entire academic year and supervised by engineering academics. These projects assess a student's ability to apply their knowledge of both theory and practice.

A variety of topics will be showcased by each department, and in some cases, a student's project may entail solving a real problem proposed by an engineering organisation. Because these projects are considered as learning experiences to encourage students to tackle problems the same way engineers do in their professional career, we encourage as much industry participation as possible.

We ensure that this is the case by inviting industry professionals each year, not just as sponsors and co-supervisors, but also to review and judge the projects. Prizes are also awarded to outstanding projects of each department.

The practical demo and display/exhibition component of the Final Year Project is what you will be seeing today.

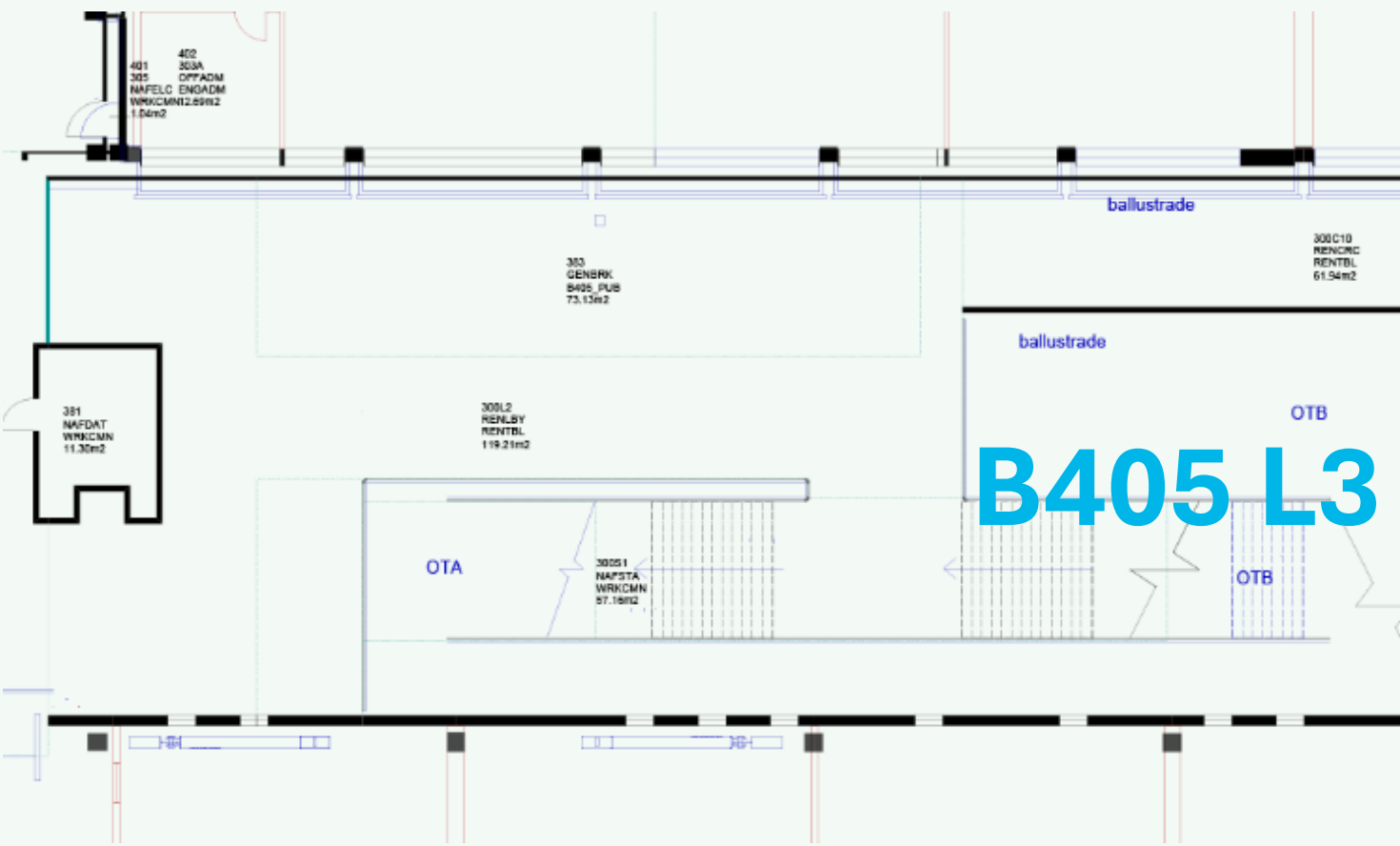
Engineering departments featured at today's event:

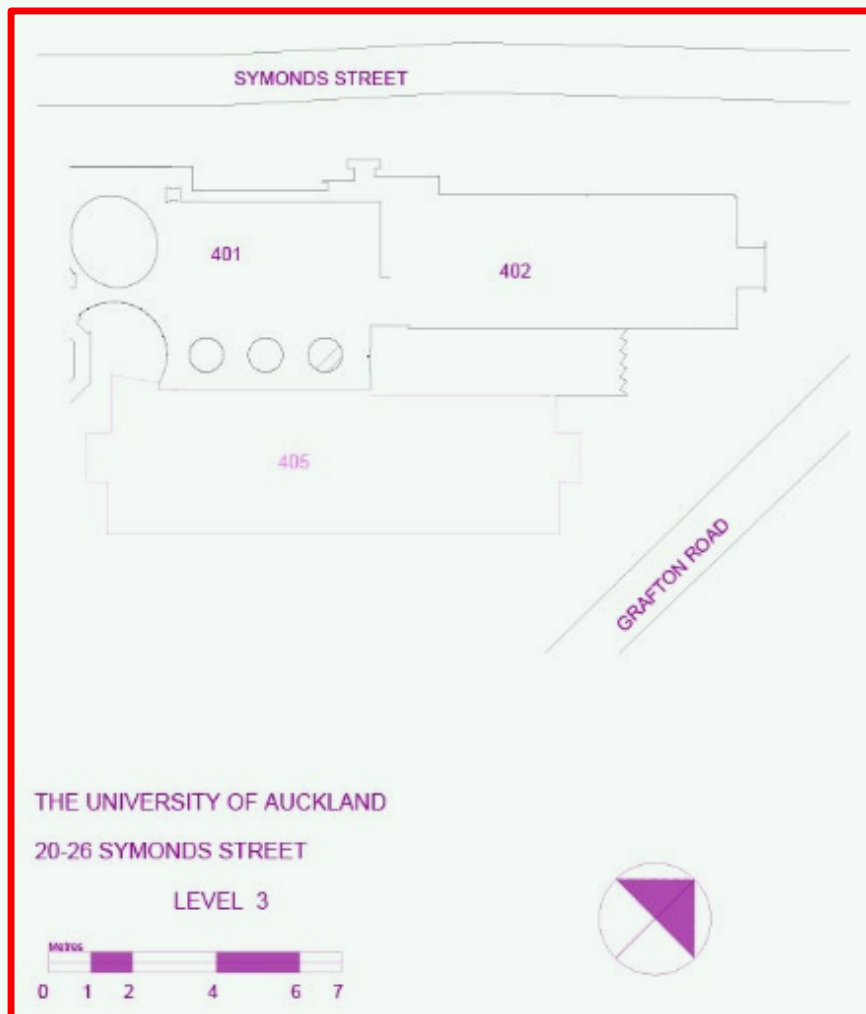
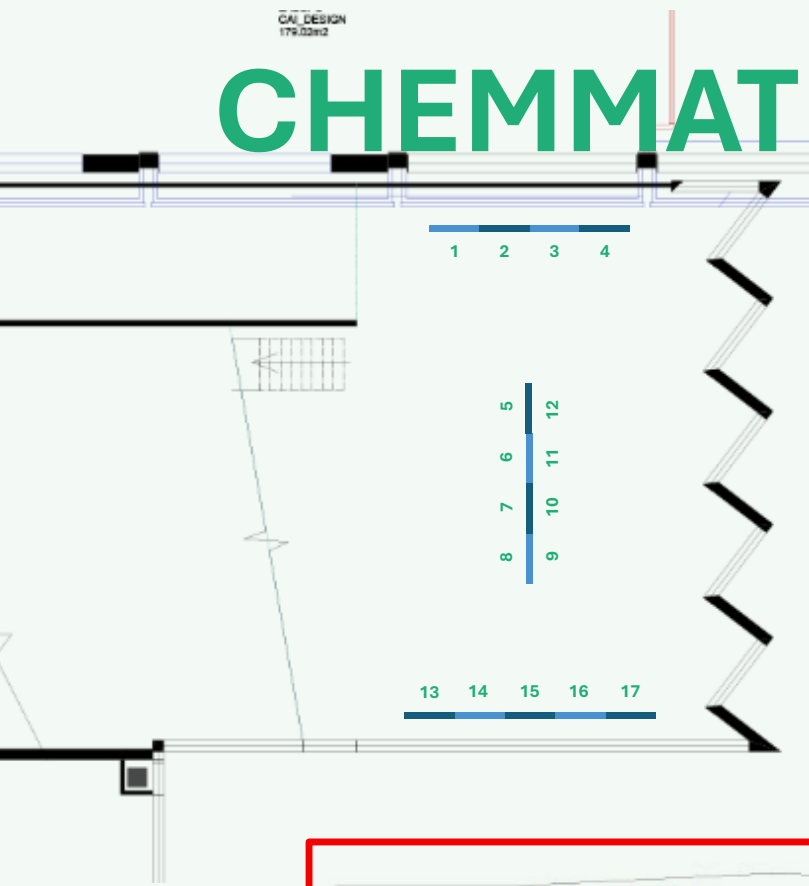
- Mechanical and Mechatronics Engineering
- Engineering Science and Biomedical Engineering
- Chemical and Materials Engineering
- Civil and Environmental Engineering
- Electrical, Computer, and Software Engineering

Chemical and Materials Engineering

Board #	Project ID	Project name
1	1	Modification of New Zealand Wool for High-Performance Supercapacitors
2	2	Correlating Temperature with Greenhouse Gas Composition
3	3	Advanced Membrane Technology for Sustainable Resource Recovery
4	4	Effect of Carbon Additions to Feedstock Powders on Thermally Sprayed WC-Co coatings
5	5	Modeling and Development of Microfluidic Chips for Mixing, Separation, Bead Separation, and Plug Generation
6	6	Physics-informed AI for predicting caustic recovery efficiency
7	7	Hybrid Digital Twin for Fed-Batch Fermentation and Reinforcement Learning Feed Control
8	9	Modelling and Simulation of Direct Steam Injection and Milk Quality Control
9	10	Multiphysics Simulation of Direct Steam Injection and Fouling Detection Using ERT
10	11	Enzymatic depolymerisation of lignocellulosic biomass for sustainable chemical production
11	12	Investigating bioreactor operation for microbial production of biopolymers from lignocellulosic-derived substrates
12	13	Probabilistic Risk Assessment of PFAS Exposure from Seafood in New Zealand
13	14	Synthesis and Characterisation of Cathode Materials for High Energy Density Sodium Ion Batteries
14	15	Design and Characterisation of Hydrogel Infused 3D Printed Lattices for Improved Mechanical Longevity
15	16	Determining the Effect of Increasingly Processed Wool Keratin on the Mechanical Properties of Alginate Hydrogels for Tissue Engineering
16	17	Magnesiothermic-Reduction-Derived Silicon Anodes for Lithium-Ion Batteries
17	18	Testing Chemical Factors to Extend the Growth of Functional Muscle Satellite Cells for Cultivated Meat Production.

	Supervisor	Co-supervisor	Student names
	Wen Zhang	Hasini Wijayaratne	Caitlyn Burwood and Zlata Voronina
	Ashton Partridge	Meng Wai Woo	Miya Fujii and Yujin Jung
	Filicia Wicaksana	Shanghai Wei	Thomas Donnell and Alexandra Johnstone
	Steven Matthews	-	Seiga Ikemura and Ayush Saha
	Meng Wai Woo	Ashton Partridge	Flynn O'Bryan and Henrietta Sang
	Isaac Severinsen	Bryan Li	William Kevern
	Wei Yu	Brent Young	Sunho Kim and Will Horne
	Isaac Severinsen	Brent Young	Jack Rose and Tosh Thomas
	Isaac Severinsen	Brent Young	Regan de Beer and Sebastien Fraser
	Shan Yi	-	Brian Lin and Srishti Rakashkoti
	Shan Yi	-	Angelique Indrawidjaja and Vivian To
	Wei Gao	Meng Wai Woo	Madeleine Bremner and Seán Weir
	Wei Gao	Michael Hodgson	Rachel Huang and Harmony Te Waaka
	Reza Arjmandi	-	Austin Qu and Frederick van Niekerk
	Jenny Malmstrom	Judith Glasson	Jatan Patel and Declan Warren
	Shanghai Wei	-	Athea Ysabelle Dimaculangan and Alyssa Pingol
	Jake Oh	-	Ethan Tanasiri and Jared Wong





Civil and Environmental Engineering

Board #	Project ID	Project name
Construction Management		
1	88	Machine learning and computer vision for post-disaster building assessments
2	89	Using remote sensing and deep learning for improved disaster impact assessment
3	90	Use of robotics for post-disaster response
4	55	Modeling the "Greenium" in NZ Infrastructure Bonds
5	56	The Impact of PPP Investment on Infrastructure Resilience in New Zealand
6	57	Asset Recycling for Infrastructure Projects in New Zealand: Institutional Barriers and Strategic Drivers
7	58	Groundwater-Related Risks in Deep Excavation Projects and their Management Strategies
8	16	From Consultation to Co-Design: Evaluating Iwi Engagement Models in Infrastructure Projects
9	17	Mapping Avoidable vs Unavoidable Losses in Wastewater Infrastructure Following Recent Hazard Events
10	18	Decision Thresholds to Invest vs Insure in Infrastructure: How Practitioners Interpret Risk, Cost, and Uncertainty
11	19	What Opportunities for Social Procurement might be Operationalised in a NZ Pumice Industry?
Environmental		
12	84	Sorption characteristics of 6PPD-Q (Tire wear particle) in aqueous solution
13	85	Adsorptive removal of HMMM and DPG tyre-wear particles from aqueous solution using designer biochar.
14	86	Student defined Environmental Engineering Project
15	87	Student defined project in the field of civil and environmental engineering
16	110	Surface water Quality monitoring
18	36	From spent lithium-ion battery black mass to Ni-Co-Mn oxalates via deep eutectic solvent leaching
19	37	Comparative life cycle assessment of meat-based and plant-based lunch meals at a university residence hall
20	107	Environmental impact per digestible protein of common protein sources
21	72	Evaluating Salt-Stable Carbonic Anhydrases for Alkaline CO ₂ Capture Using Experimental Testing and Kinetic Modelling
22	73	Predicting Performance of Halophilic Carbonic Anhydrases Using Sequence Data and Machine Learning Tools
23	76	Treating Contaminated Water Using Microbes and Nanobubbles

	Supervisor	Co-supervisor	Student names
	Alice Chang-Richards	Alex Shegay	Neekisha Lal (nlal162), Rachel Rozik (rroz381)
	Alice Chang-Richards	Ken Elwood	Theodore Ng (tng909), Sophia Wan (swan472)
	Alice Chang-Richards	Nona Taute	Selina Chan (ncha226), Sophia Luo (sluo487)
	Hongyu Jin		Taranjot Dhaliwal (tdha392), Angus Smith (asmi629)
	Hongyu Jin		Oliver Shi (oshi740), Yachen Sun (ysun512)
	Hongyu Jin		Angela Ling (alin912), Zhenjin Zhai (zzha999)
	Hongyu Jin		Jerry Guo (zguo839), Max Qi (mqi231)
	Nona Taute		Francisca Espiritu (fesp714), Jewel Mae Paz (jpaz106)
	Nona Taute		Xuhan Tang (xtan207), Betty Zhou (qzho943)
	Nona Taute		Xinyue He (xhe530), Chao Leng (clen485)
	Nona Taute		Andrew Davies (adav221), Kritanu Magar (kmag441)
	Ajit Sarmah		Samuel Yuan (syua841), Joshua Zhang (ajhz010)
	Ajit Sarmah		Kalana Piramanage (kpir468), Jaimee Samoa (jsam631)
	Ajit Sarmah		Zachary Gasparini (zgas053), Zubair Yahiya (zyah987)
	Ajit Sarmah		Jay Jay Tan (jtan227), Amir Younesi (ayou533)
	Cody Mankelow		Harrison Cope (hcop563), Josh Horan (jhor229)
	Febelyn Reguyal		Manas Nayyar (mnay503), Baxter Riley (bril841)
	Febelyn Reguyal		Chris Mascarenhas (cmas527), Kaushal Patel (kpat303)
	Febelyn Reguyal		Jayden Deacon (jdea126), Eshaan Ghoshal (egho902)
	Hukerenui Bonnet	Wei-Qin Zhuang	Yahia Ayoub (yayo322), Adeel Sheikh (ashe298)
	Hukerenui Bonnet	Wei-Qin Zhuang	Lydia Liu (lliu848), Anika Rahman (arah160)
	Naresh Singhal		Bowen Jing (bjin223), Rosie Li (lros711)

Board #	Project ID	Project name
24	77	Characterisation of chemical and biological contaminants in Auckland's waterways
25	32	Rising Waters, Resilient Homes: A multi-faceted approach towards housing resilience in Aotearoa New Zealand's Flood-Prone Areas (1)
26	33	Rising Waters, Resilient Homes: A multi-faceted approach towards housing resilience in Aotearoa New Zealand's Flood-Prone Areas (2)
27	34	Future-proofing Aotearoa's Resilience: Integrating Technological and Natural Hazard Risk
28	108	Rising Waters, Resilient Homes: A multi-faceted approach towards housing resilience in Aotearoa New Zealand's Flood-Prone Areas (3)
29	65	Incorporation of Te Ao Māori values in stormwater management and design in Auckland
30	81	GIS-based assessment of marae and Māori-owned land vulnerability to natural hazards and access disruption
31	95	Development of a resource management framework for iwi and community-led pumice exploration and use
32	20	Halophilic Carbonic Anhydrases: From Sequence to Function under Saline Stress
33	21	Characterising Salt-Tolerant Carbonic Anhydrases for Biotechnological Applications
34	22	Develop Novel Applications Using Halophilic Carbonic Anhydrases
35	109	Engineering Carbonic Anhydrases for Novel Applications
Water		
36	1	Artificial Reef Scour
37	2	Tsunami scour
38	5	The initial movement of a sediment particle in a stream bed
39	67	Beach responses to cliff erosion
40	68	Stormwater effects on wave runup and erosion at urban beaches
41	11	Investigate a Property Flood Resilience for Auckland
42	12	Develop a drought index for Tonga
43	13	Investigate the suitable flood mitigation for Nuku'alofa
44	96	Living Roof Water Quality Evaluation Project
45	91	Developing a hydraulic model of Auckland's sewer system
46	92	Scouring damage to water distribution pipes outside leaks
47	93	Smart Sensors for Detecting Problems in Sewer Pipes
48	94	Development of defects in Watercare's sewer network
Geotech		
49	47	Assessment of Ground Improvement using In-situ Geotechnical Data
50	48	Assessment of Stopbanks: Blending Geotechnical and Geophysical Insights
51	31	Evaluation of Degree of Hydration in Calcined Clay-Blended Cement Using TGA
52	80	Determination of Specific Surface Area of Some Auckland Clays Using Water Vapour Sorption Analysis

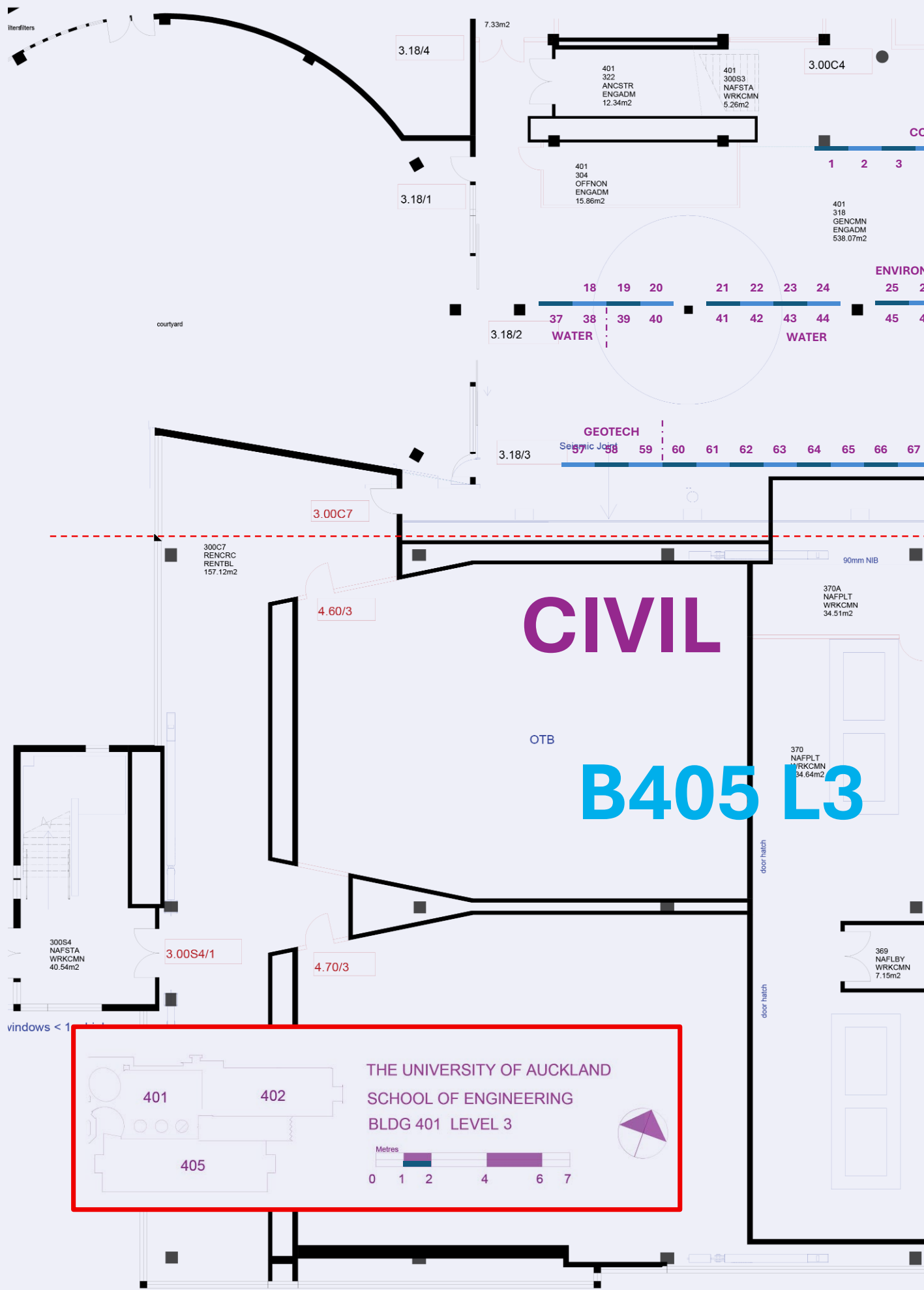
	Supervisor	Co-supervisor	Student names
	Naresh Singhal		Amy Prebble (apre444), Stanley Sparks (sspa275)
	Sandeeka Mannakkara		Nishera Gnanendra (ngna565), Ankia Van Zyl (avan381)
	Sandeeka Mannakkara		Akash Anand (aana675), Aryan Nigudkar (anig922)
	Sandeeka Mannakkara	Liam Wotherspoon	Ruthvik Kumar (rkmu559), Jerry Lam (slam669)
	Sandeeka Mannakkara		Mohammed Dean (mdea492), Sivakesavan Sivaraman (ssiv093)
	Tumanako Fa'au		Lorive Saena (lsal082), Mia Tamahori (mtam709)
	Tumanako Fa'au		Josh Coe (jcoe807), Hamish Moffat (hmof971)
	Tumanako Fa'au		Jinyuan She (jshe464), Abby Shi (ashi565)
	Wei-Qin Zhuang	Hukerenui Bonnet	Jayden Kah (jkah253), Charlie Madsen (cmad989)
	Wei-Qin Zhuang	Hukerenui Bonnet	Misha Bahl (mbah279), Jocelyn Wong (jwon323)
	Wei-Qin Zhuang	Hukerenui Bonnet	Michael Su (msu975), Toma Yousif (tyou421)
	Wei-Qin Zhuang	Hukerenui Bonnet	Hannah Findlay (hfin238), Micah Rogo (mrog757)
	Bruce Melville		Briony Wisutthisri (bwis161), Elena Yeo (eyeo346)
	Bruce Melville		Malinda Guan (mgua740), Georgina Zhou (gzho986)
	Bruce Melville		William Wang (wwan296), Chun Kiu Yiu (cyiu210)
	Colin Whittaker	Bruce Melville	Laura Lightfoot (lilig859), Chelsea Ou Yang (couy656)
	Colin Whittaker	Bruce Melville	Caroline Beeson (cbee072), Serene Hew (khew624)
	Kilisimasi Latu		Sunny Davies (sdav969), Blake Larcombe (blar030)
	Kilisimasi Latu		Aman Chand (ahac223), Keith Fepuleai (kfep063)
	Kilisimasi Latu		Alamita Likiliki (aliki326), 'Alunga Tupou (atup175)
	Kilisimasi Latu	Wei-Qin Zhuang	Nawar Alghothani (nalg484), Lavinia Shaba (lsha172)
	Kobus van Zyl		Rosemary Huang (mhua821), Wei Lin (wlin709)
	Kobus van Zyl		Sophia Lee (else264), Hamish Thompson (htho943)
	Kobus van Zyl		Chen Huang (chua804), Ho Kit Mah (mhok509)
	Kobus van Zyl		Zachary Gabriel (zgab423), Harrison Gough (hgou636)
	Andrew Stolte	Liam Wotherspoon	Bethany Flanagan (bfla774), Esther Park (jpar523)
	Andrew Stolte	Liam Wotherspoon	Max Lin (mlin729), Matthew O'Connor (moco678)
	Arezoo Rahimi		David Chen (dche306), Jay Wang (wany932)
	Arezoo Rahimi		Horan Kong (hkon883), Tony Lin (tlin438)

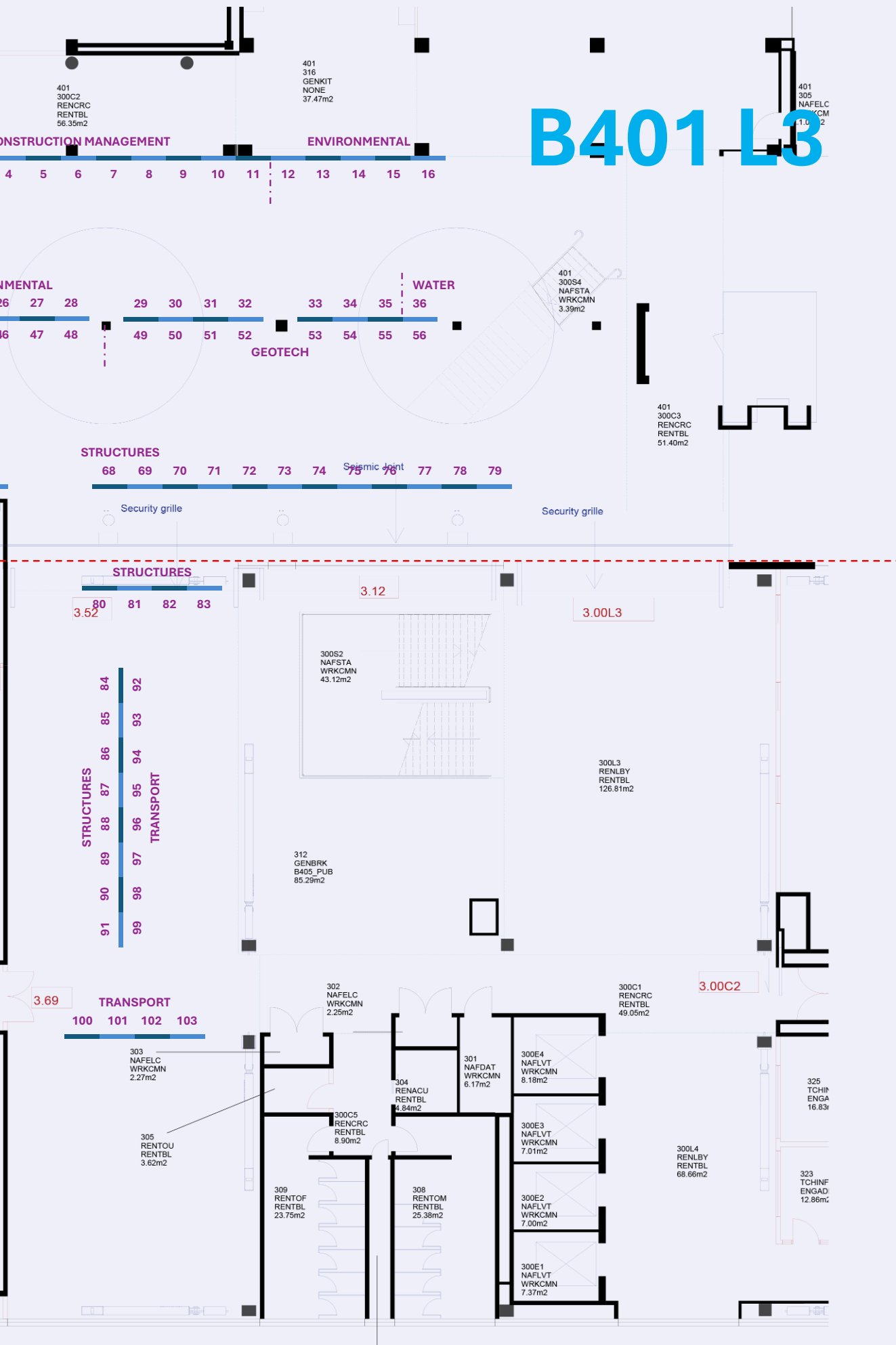
Board #	Project ID	Project name
53	83	Impact of Hydraulic Conductivity Contrast Within a Slope Profile on Rainfall-Induced Slope Failure
54	10	Geophysical Characterisation of Auckland Region Deposits
55	29	Performance of Bridges during Cyclone Gabrielle
56	49	Comparing different Geospatial methods for assessing liquefaction hazard across New Zealand
57	45	Anisotropic behaviour of compacted pumice sand
58	46	Comparative study of liquefaction evaluation procedures
59	104	Application of Japanese liquefaction assessment procedures to New Zealand sites
Structures		
60	44	Seismic Performance of Glass Façades in Modern Buildings
61	66	When Isolation Stops Isolating: Activation Limits of Base-Isolated Buildings
62	103	Weak Links in Concrete Walls: Understanding and Retrofitting Lap-Splice Failures
63	69	The analytical dynamics of multi-span rocking bridges
64	70	Workflow automations for structural engineering problems
65	75	From 3D scanning to 3D modelling of unreinforced masonry structures
66	114	An inventory of URM buildings prone to tsunami loading
67	61	Earthquake Performance Comparison of Low-Damage Eccentric Braced Frames and Diagonal Braced Frames
68	62	Developing a Model for Low-Damage Timber Stud Walls
69	38	Cellular Beam Teaching Tools Development
70	39	Safety and Cost Benefits of Using Active Versus Passive Protection for Fire Resistance of Steel Structures
71	40	Performance of inclined welds with actual dimensions under monotonic and cyclic loading
72	101	Structural System Teaching Tools
73	54	Assessing the Vulnerability of Housing Stock in Fiji
74	60	Reforming housing in New Zealand through Indigenous Knowledge
75	71	[CDP-MECH] Understanding the factors preventing the re-balancing of gender representation in the engineering consulting industry/leadership
76	26	Durability for timber elements in exterior exposure
77	27	Building information modelling for timber structures
78	28	Use of secondary waste timber in construction
79	6	Designing an outdoor structural testing facility at Ardmore
80	50	Effect of earthquakes on multi degree-of-freedom clustered structures
81	51	Effect of wave transmitting behaviour of soil on soil-footing-structure system
82	52	Consequence of SDOF and MDOF models on the dynamic response of soil-footing-structure systems

	Supervisor	Co-supervisor	Student names
	Arezoo Rahimi		Ivan Ko (iko203), Jin Won (jwon697)
	Liam Wotherspoon	Andrew Stolte	Corban Taylor (ctay468), Tyler Wolsky (twol698)
	Liam Wotherspoon	Lucas Hogan	Ben Carter (bcar662), Abrar Khan (aahk349)
	Liam Wotherspoon		Harshita Bheema (hbhe454), Yasmin Darwish (ydar075)
	Rolando Orense		Ruby Shaw (rsha769), Jack Wilson-Jones (jwil813)
	Rolando Orense		Cara Chen (ccche457), Hao Zhang (hzha238)
	Rolando Orense		Sora Fryer (sfry192), Jaashwanth Niranjeyan (jnir450)
	Alex Shegay		Leo Su (lsu376), Ivan Xu (ixu871)
	Alex Shegay		Luca Bourhill (lbou433), Harrison Hill (hhil451)
	Alex Shegay	Lucas Hogan	Dale Li (dli147), Alex Markovina (amar516)
	Anastasios Giouvanidis		Kosrat Barzengi (kbar402), Ryan Sit (rsit412)
	Anastasios Giouvanidis		Yasir Taher (mmoh456), Bill Yin (yyin299)
	Anastasios Giouvanidis	Jason Ingham	Justin Chen (jche456), Vincent Wu (vwu693)
	Anastasios Giouvanidis	Colin Whittaker	Ethan Carey (ecar892), Danny Nguyen (tugn386)
	Ashkan Hashemi		Yasin Rahmani (yrah128), Rajeev Singh (rsin719)
	Ashkan Hashemi		Kayla Abbott (kabb319), Emma Frandi (efra318)
	Charles Clifton		Scarlett James (sjam309), Maia Young (myou984)
	Charles Clifton		Mahad Chaudhary (mcha876), Nam Truong (ntru465)
	Charles Clifton		Oliver Gabriel (ogab251), Luke Spurr (lspu128)
	Charles Clifton		Hamish Prasad (hpra801), Disha Verma (dver839)
	Charlotte Toma	Sandeeka Mannakkara	Stefanie Humphries (shum116), Bhavin Patel (bpat907)
	Charlotte Toma		Jake Earnest (jear460), Matilda Fletcher (mfle888)
	Charlotte Toma		Rosa Dickey (rdic384), Isabella Wilson (iwil997)
	Gary Raftery		Xiaotong Liang (xlia603), Shengru Pan (span558)
	Gary Raftery		Eashan Singh (esin915), Rafael Tapuso (rtap592)
	Gary Raftery		Harlin Amaral (hama210), Karl Place (kpla566)
	Jason Ingham	Charles Clifton	Sonia Jafari (sjaf029), Thomas Zhou (tzho903)
	Nawawi Chouw		Sara Abo Nass (sabo272), Tessa Cooper (tcoo725)
	Nawawi Chouw		Callista Ivanka (civa625), Mohamed Kajee (mkaj411)
	Nawawi Chouw		Angelo Rodrigues (ardo831), Kyunghwa Song (hson873)

Board #	Project ID	Project name
83	100	Eco-friendly composites for structures in earthquake-prone regions
84	15	End grain embedment resistance of fasteners in timber structures
85	79	Cost analysis of screws vs enlarged steel plate to avoid CLT punching shear in gravity systems
86	41	Developing online webapps for automated structural designs
87	42	Campus-Based Seismic Monitoring Using Low-Cost Sensors and Designing a Professional Structural Health Monitoring
88	43	Desktop Structural Assessment and Climate Risk Evaluation of a Heritage Structure in Antarctica
89	23	Can you build a concrete cricket bat?
90	24	Embodied carbon of concrete flooring systems
91	25	Precast concrete wall details
Transport		
92	74	The evaluation of the implementation of a full scale Wireless IPT pad within road pavements
93	78	Effects of Ageing on the Interface Behaviour between an IPT Pad and Asphalt Mixture
94	30	Understand driving behaviours through Virtual Reality and RC cars
95	35	Impacts of Cyclone Gabrielle on Logistics Systems: A Data-Driven Analysis
96	112	Modelling the Economic Impacts on Healthcare Facilities from Road Network Disruptions
97	113	Quantifying the Impact of Road Network Disruptions on Key Regional Industries
98	3	How safe do women feel using public transport: a multimodal perspective
99	4	How stressful is it to walk? Examining first and last mile walking routes to major public transport terminals
100	97	Student-defined Project
101	59	Understanding Investment Needs into Resilience for Water Infrastructure
102	98	Modelling Invest vs. Insure Strategy for Road Network Resilience and Recovery under Natural Hazard Disruption: A Cyclone Gabrielle Case Study in Hastings District Council
103	99	Technical Evaluation of Automated and Virtual Airport Pavement Condition Index Assessment According to ASTM D5340 Standard

	Supervisor	Co-supervisor	Student names
	Nawawi Chouw		Kimberly Fernandes (kfer833)
	Pierre Quenneville		Jhasser Bucasan (jbuc296), Hayden Grantley (hmel649)
	Pierre Quenneville	Ashkan Hashemi	Yuheng Dai (ydai729), Liyuan Gan (lgan833)
	Quincy Ma		Huzef Vohra (vhuz103), Kelvin You (kyou825)
	Quincy Ma		Henry de Groot (hdeg917), Olano Scarlett (osca399)
	Quincy Ma		Kaya Bookless-Jellick (kboo604), Spencer Church (schu800)
	Rick Henry		Marco Leung (cleu746), Jacob Liu (jliu295)
	Rick Henry		Anton Falepeau (afal438), Cooper Tubman (ctub889)
	Rick Henry		Simon Hay (shay613), Shellby-Sage Rousseau (srou953)
	Doug Wilson	Tam Larkin	Benhur Pakalapaty (bpak212), Vrij Patel (vpat188)
	Doug Wilson	Tam Larkin	Harry Chen (hche410), Sahil Kumar (skmu887)
	Minh Kieu		Yaseen Hafezi (yhaf839), Dylan Patel (dpat674)
	Minh Kieu		Reian Dunning (rdun690), Hee-Yoon Joo (hjoo911)
	Seosamh Costello	Eduardo Allen	Luke Heo (sheo841), Sophia Kang (skan221)
	Seosamh Costello	Eduardo Allen	Joshua Bamfield (jbam753), Zac Crawford (zcra120)
	Subeh Chowdhury		Masrur Khandaker (amhk276), Cuong Nguyen (cugn667)
	Subeh Chowdhury		Dinith de Alwis (dgal735), Riveen Kariyawasam (rkar406)
	Subeh Chowdhury		Eric Cai (ycai466), Charles Danao (cdan712)
	Theuns Henning	Kobus van Zyl	Lucy Feng (yfen481), Agam Khanna (aahk798)
	Theuns Henning	Annisa Hasanah	Kylah Recato (krec980), Jodie Tobia (mtob213)
	Theuns Henning	Annisa Hasanah	Emad Alghazouli (ealg928), Ryan Kirkpatrick (rkir245)





Electrical, Computer, and Software Engineering

Board #	Project ID	Project name
AI & Machine Learning A		
1	124	Auditing Artificial Intelligence with Adversarial Learning
2	5	Self-Supervised Barlow-Twins Pretraining for Data-Efficient U-Net Medical Image Segmentation
3	64	Polynesian Voices: Building Modular Text-to-Speech (TTS) Systems for Polynesian Languages
4	1	Quantitative comparative analysis of machine learning and AI models of classical and new for sentiment analysis of financial data
5	45	AI techniques for the inverse problem of electrocardiography
6	4	Efficient and scalable neuromorphic compute for spiking neural networks
AI & Machine Learning B		
7	67	Are LLMs Producing Developer-Ready Documentation?
8	42	Metamorphic Testing of LLMs via Prompt Transformations
9	80	AI Evaluation of Student Work Against Rubric-Based Criteria
10	79	AI-Driven Lecture Delivery Feedback
11	123	AI-based virtual parliament
12	108	Advancing AI-Driven Conversational Assessment in Tertiary Education
AI & Machine Learning C		
13	18	Autism AI LLM
14	49	DementiaGuide AI: An Avatar-Based Digital Resource Management System for Dementia Care
15	48	Video-Based Activity Tracking and Risk Management for Dementia Care
16	29	CareMate AI – An Intelligent Avatar for Personalised Aged Care
17	105	Multisensory and Cross/multi-modal bio-feedback Interaction System Integrated with Immersive Art for Emotional Regulation
18	85	Efficient Dynamic Sign Language Recognition on Resource-Constrained Embedded Systems
AI & Machine Learning D		
19	106	A novel digital twin of autonomous vehicles for safe autonomy
20	111	Cognitive Fatigue Modelling in a VR Supermarket with an Adaptive Agent
21	63	GameSense Haptics: Leveraging LLMs to Create Adaptive, Player-Centric Tactile Cues
22	97	Empathic Virtual Agent for Adaptive VR Driving
23	96	Multimodal Sensing and AI-Driven Assessment for Safety and Quality Assurance in Virtual Meeting Environments
24	84	AI Guide for Assembly

	Supervisor	Co-supervisor	Student names
	Joerg Wicker		Aolin Yang , Johnson Zhang
	Waleed Abdulla		Uday Jain , Kartik Malik
	Jesin James		Daniel Kim , Toshiro Ramos
	Avinash Malik		Miguel Balingit , Nicholas Wilson
	Avinash Malik		Steven Huang , Kevin Wang
	Avinash Malik		Ryan Lee , Calvin Nair
	James Tizard		Connie Ding , Shihoo Park
	Valerio Terragni		Liam Byrne , Manan Patel
	Andrew Meads		Grace Xu , Kimberley Zhu
	Andrew Meads	Yu-Cheng Tu	Subeen Ban , Daniel Kim
	Joerg Wicker		Kieran Joe , Albert Sun
	Nasser Giacaman		Gian Mohinani , Newton Yuan
	Reza Shahamiri		Rhett Murdoch , Rayaana Rajabally
	Jing Sun		JooHyun Kang , Richman Tan
	Jing Sun		Andrew Jeon , Kevin Kim
	Jing Sun		Reynhard Buitendach , Tristan Hall
	Yun Suen Pai		Ravi Grewal , Sewni Peiris
	Trevor Gee	Ho Seok Ahn	Salomia Joby , Yash Ram
	Partha Roop		Yichao Wang , Zhanhang Zhou
	Mark Billingham		Jerry Kim , Om Patel
	Allan Fowler	Robert Amor	Connor Hare , Ibrahim Waheed
	Yun Suen Pai		Zhenting Wang , Jade Zhou
	Yun Suen Pai		Divyanshu Khadka , Oshan Premkumar
	Trevor Gee	Henry Williams	Brian Han, Rudra Patel

Board #	Project ID	Project name
AI & Machine Learning E		
25	22	Network Topology Optimisation via Automated Switching Plan Validation
26	16	Solar-Powered Micro Data Centres with Post-Quantum Cryptography and Resilient Compute, Storage, and Communications
27	102	AI-Driven Optimization of RAN Network Slicing in Cloud-Native Environments
28	59	Interactive Social Guide Robot
29	57	Healthcare robot system
30	58	Robot Soccer System
Embedded Systems A		
31	21	A bittide-Native Processor for Deterministic Distributed Computing
32	23	Energy-Efficient Hardware Accelerator for Capsule Networks
33	25	Investigating RISC-V Instruction Set Architecture (ISA) Extension to Emulate a Subset of x86 Instructions
34	32	Self-organisation, reconfiguration and Over-the-Air (OTA) software up-date systems for wireless sensor network
35	34	Experimental heterogeneous multiprocessor on chip for mixed reactive and data dominated real-time applications
36	60	Development of a Novel Cryogenic Cyber-Physical Platform
Embedded Systems B		
37	127	A Multimodal Physiological Sensing Platform for Real-Time Emotional Arousal Classification and Adaptive Virtual Reality Environments
38	15	Using Machine learning techniques to compare, contrast and characterise environmental sensors
39	26	Accelerating TinyML Applications on FPGA-based Platforms
40	107	Design of a Smart Trap for sustainable vector control of mosquitos
41	19	Battery free localisation and asset tracking
42	103	Design and Experimental Validation of a Microstrip Patch Antenna Sensor for Non-Invasive Glucose Estimation via Dielectric Characterization
Games & Education Aids A		
43	53	Evaluating Large Language Model Performance on University-Level Software Engineering Assesments
44	12	Draw a Software Engineer. Investigating the Engineering Gender Gap
45	81	Reimagining Lecture-Based Education through Interactive Software Modules
46	119	Patterns for Success: What Summary Sheets Reveal About Student Preparation, Perception, and Performance in Tests
47	74	Understanding Teamwork and Problem-solving in Engineering
48	116	AI Soccer Simulator

	Supervisor	Co-supervisor	Student names
	Maryam Hemmati		Zara Colaco , Charlotte Setter
	Kevin I-Kai Wang	Akshat Bisht	Ajith Penmatsa , Nicky Tian
	Dev Singh		Stanley Findsen , Mark Zhao
	Ho Seok Ahn	Trevor Gee	Eddie Kim , Jeruh Kim
	Ho Seok Ahn	Bruce MacDonald	Cole Brown, Reuben Starke
	Ho Seok Ahn	Bruce MacDonald	Amir Mahdian , Aryan Walanj
	Maryam Hemmati	Partha Roop	Liam Hall , Tom Rong
	Maryam Hemmati	Morteza Biglari-Abhari	Tonny Chen , Beren Eskildsen
	Morteza Biglari-Abhari		Alex Brown , Jonathan Goldsmith
	Zoran Salcic	Akshat Bisht	Joshua Feng , David Yu
	Zoran Salcic		Jonathan Cilliers , Wenjing Yuan
	Partha Roop	Partha Roop	Kalupahana Bhanuka , Damian Robertson
	Felix Marattukalam	Dulsha Kularatna-Abeywardana	Aaron Hassan , Caleb Sherrock
	Kevin I-Kai Wang	Akshat Bisht	Macy Butler , Krishay Kollipara
	Morteza Biglari-Abhari		Samuel Lee , Dimitri Watt
	Partha Roop	Shahab Kazemi	Milan Ahuja , Alastair Charles
	Akshat Bisht	Kevin I-Kai Wang	Luca Latham , Blake Yule
	Felix Marattukalam	Michael Neve	Matthew Manion , Ryan Smith
	Jesin James	James Tizard	Arnav Bhatiani , Phoebe Fung
	James Tizard		Rebecca Ngan , Aye Thu
	Andrew Meads	David Huang	Atul Kodla , Tyler Young
	William Lee	Claire Donald	Josh Shiu, Leo Van Der Vegte
	William Lee	Yuanyuan Hu	Leo Chu , Harry Ma
	Ho Seok Ahn		Joshua Mak , Muhammad Mohamad Hanafiah

Board #	Project ID	Project name
Games & Education Aids B		
49	61	Development of a Signal-Processing-Based Feedback System for Singing Pedagogy
50	14	AR/VR Visualisation of multimodal data for lake health monitoring
51	109	LLM-guided Agent for Machine Learning Learners
52	50	Gamifying self-care using wearable technology
53	98	Digital Twin for Pedestrian Safety – VR Simulation for Assessing Pedestrians' Risky Travel Behaviour to Public Transport Hubs
54	62	Kaimanāki o te Ngahere: Guardians of the Forest
Green Energy Technologies		
55	52	Low Power TMR Sensing Applications
56	27	A Cryogenic Semiconductor Switching Bank for Flux Pump Applications
57	69	A Compact and Light Weight Flux Pump for a Superconducting Magnet
58	35	Optimisation of Nanocrystalline Laminates for Inductive Power Transfer
59	7	Photovoltaic MPPT under Partial Shading Conditions and Control of Hybrid Energy Storage System in Microgrid Systems
Human Computer Interactions		
60	28	AvatarCST: AI-Powered Virtual Delivery of Individual Cognitive Stimulation Therapy
61	66	Developing a Custom Generative AI Tool to Support Self-Regulated Learning in Complex Problem-Solving
62	94	A Multimodal, Adaptive, and Embodied XR System for Self-Regulation Skills Training
63	110	Low-Cost Eye Tracker Integration for Virtual Reality Display
64	95	XR-Based Exercise Systems for Sustained Engagement and Social Support
65	56	Human-Comprehensible Robot-to-Robot Communication via Co-Speech Motion Generation
Image & Voice Processing		
66	10	Aesthetic Intelligence for Audio: A Unified Speech-Music-Sound Quality Predictor and Its Use in Improving Generative Audio
67	104	Real-Time CCTV Anomaly and Incident Detection System
68	130	Detecting speaker position from the speech signal
69	17	Interactive Feedback for Dysarthric Speech Recognition using Reinforcement Learning
70	11	Underwater Autonomous Vessel Survey
71	88	Surface Reconstruction from RGB-D Data Using Neural TSDF Representations
Intelligent Systems & Control		
72	55	Feature-Based Anomaly Detection Algorithm
73	87	Multi-Agent Reinforcement Learning Framework for Load Frequency Control
74	33	Towards using machine learning to improve industrial manufacturing control
75	20	Ultra low power gesture recognition system
76	30	Towards Dynamically Reconfigurable Discrete Industrial Automation Systems
77	31	Digital Twins and Machine Learning in Industrial Automation Systems Modelling

	Supervisor	Co-supervisor	Student names
	Jesin James		Rebekah Massey , Diya Vakhariya
	Kevin I-Kai Wang	Akshat Bisht	Lachlan Hickey , Kevin Vu
	Elliott Wen		Aref Osman , Jiaxin Yan
	Talia Xu		Shazeel Ali , Thomas Dickson
	Burkhard Wuensche		Miles Makino-Torrington , Hunter Roberts
	Allan Fowler		Henry Ly , Will Massam
	Dariusz Kacprzak		Daniel Tieu , Sam Ye
	Duleepa Thrimawithana		Anna Haine , Ella Wilson
	Duleepa Thrimawithana		Hamza Nawaz , Prisha Singh
	Seho Kim	Grant Covic	Taha Basar , Thor Bridger
	Abhisek Ukil		Ron Chong , Miguel Penarubia
	Jing Sun		Ryan Gin , Kieran McKenna
	Allan Fowler		Lanna Lagasca , Wallace Wu
	Yun Suen Pai		Weyman Wong , Perry Xie
	Mark Billingham	Burkhard Wuensche	Gavin Chi, Yuewen Sun
	Yun Suen Pai		Joe Nguyen , Dhruv Sawant
	Ho Seok Ahn	Bruce MacDonald	Ivory Huang , Chaeun Lee
	Waleed Abdulla		Zeno Simunic , Chloe Yu
	Felix Marattukalam	Waleed Abdulla	Jojo Meikle-Downing , Albert Yuan
	Catherine Watson		Logan Douglas , Navi Gamage
	Reza Shahamiri	Henry Williams	Jayde Lal , Jack Matthews
	Henry Williams	Trevor Gee	Quin McClean , Pablo Pertusatti
	Trevor Gee	Henry Williams	Rebekah Le Grand , Alex Tee
	Nitish Patel		Lucy Lian
	Akshya Swain		Amish Kumar, Ikenna Unamadu
	Zoran Salcic		Joanna Kim , Ella Ma
	Kevin I-Kai Wang	Akshat Bisht	Anthony Pang , Dev Patel
	Zoran Salcic		Eric Chen , Jesse Li
	Zoran Salcic		Viraaj Kapadia , Kabir Sikh

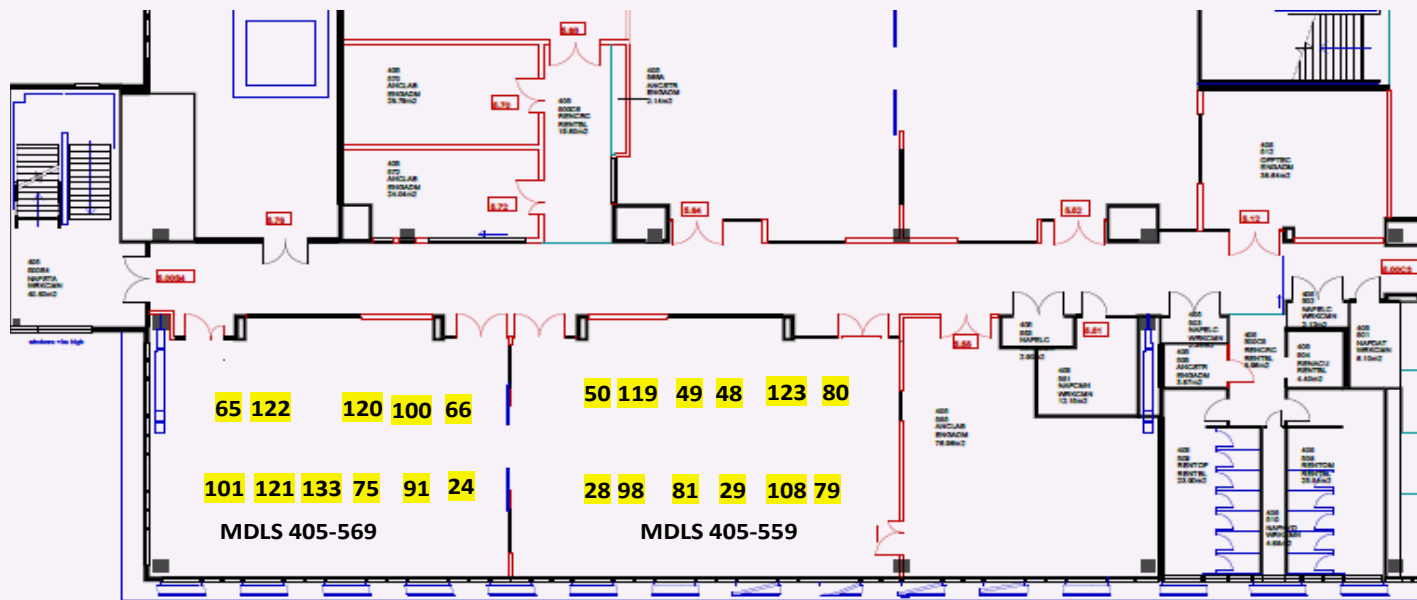
Board #	Project ID	Project name
Power Electronics		
78	51	Development of a Superconductor-Based Energy Distribution System for AI Servers
79	132	Development of an Arc Fault Circuit Interrupter (AFCI) Tester
80	38	Feasibility of Liquid Metal Coolants for Increasing Power Density in Inductive Power Transfer Systems
81	82	Development of a Thermo-Electric Generator for Cooling
82	9	Design and Experimental Evaluation of a Four-Switch Buck–Boost Converter for EV 48V–12V Auxiliary Power Systems
83	54	Grid-Forming Inverter Stability and Control in Weak, Harmonic-Rich Distribution Networks
Power Systems		
84	6	Coordinated Charging Scheduling Optimization for Electric Vehicle Aggregators in Multi-Microgrid Systems
85	8	Development of Mesh Multi-Terminal Direct Current system to validate protection topologies
86	70	Fault-Oriented Assessment of Grid-Forming Inverters in Mixed AC/DC Low-Voltage Networks
87	72	Detection, Modelling, and Experimental Validation of Arc-Induced Fire Risk in Low-Voltage Pillars and Enclosures
88	73	Review of NZ Solar Farm Harmonic Performance and Potential Technical or Policy Mitigation Strategies
89	71	Developing Cable Sizing Application for Electrical CAD Software
Radio Systems		
90	24	RF intelligent reflecting surface using FPGA Interconnects
91	89	Design and Characterisation of UHF Antenna Systems for Cubesats
92	112	Extraction of Channel State Information from WiFi Systems
93	114	Ad Hoc Wireless Network Testbed
94	99	Maritime Geolocation Using AIS Transmission Metrics
95	113	Low-cost Multistatic Radar
Robotics		
96	3	AI models for path following, object detection and avoidance for autonomous vehicles
97	44	Autonomous Navigation for Canopy Sampling
98	46	Companion robot design
99	47	Petoi robot evaluation for research and teaching.
100	2	Multi-Agent Reinforcement Learning based Racing for FSAE/F1Tenth
101	86	Autonomous Depth Control and Obstacle Avoidance for a Tow-Camera Imaging System
Signal Processing		
102	37	Parallelising Cell Models on FPGA
103	39	Motion detection of Bees Using Electrostatic Sensors
104	40	Assessing the feasibility of an FPGA-based doppler ground speed sensor using affordable COTS components

	Supervisor	Co-supervisor	Student names
	Duleepa Thrimawithana		Matheus Geronasso , Leon Lei
	Duleepa Thrimawithana		Adil Murumkar, Thinamsan Prashath
	Patrick Lawton	Grant Covic	Shrirang Ekbote , Alexander Skilton
	Udaya Madawala	Nitish Patel	Alex Facer , Mark Guo
	Abhisek Ukil		Hui Feng , Hao Yang
	Abhisek Ukil		Soroush Naseh , Daniela Rojas Vargas
	Abhisek Ukil		Abhishek Dey , Mohammad Tousif Kabir
	Abhisek Ukil		Oscar Ko , Leo Pan
	Nirmal Nair		Co Cheng , Annie Li
	Nirmal Nair		Dominic Fortes , Sam Tebbutt
	Nirmal Nair		Jeremy Muldoon , Robert Ward
	Nirmal Nair		Rafe Beaman , Matthew Monaghan
	Talia Xu		Eedong Jeong , Yukyung Lee
	Michael Neve	Benjamin Taylor	Juny Lee , Jin Shim
	Kevin Sowerby		Paul Chainey , Xinyue Zhu
	Kevin Sowerby	Dev Singh	Max Chen , Charan Gazula
	Michael Neve		Eric Lee , Alexander Simons
	Kevin Sowerby		Shakeer Devanath , Eric Shan
	Avinash Malik		Ken Deng , Zhiyuan Fu
	Bruce MacDonald	Ho Seok Ahn	Raiyan Khan , Ashwin Singh
	Bruce MacDonald	Ho Seok Ahn	Nico Abrasado , Glen Malbog
	Bruce MacDonald	Ho Seok Ahn	Yashna Kumar , Toma Mirchevska
	Henry Williams	Trevor Gee	Michael Boyer , Taewon Yun
	Henry Williams	Trevor Gee	Corban Ellison , Isaac Hook
	Nitish Patel		Kyle Limlengco, Marie Patlong
	Nitish Patel		James Beddek , Joseph Kernohan
	Nitish Patel		Ashkan Azarkish , Christian Motta

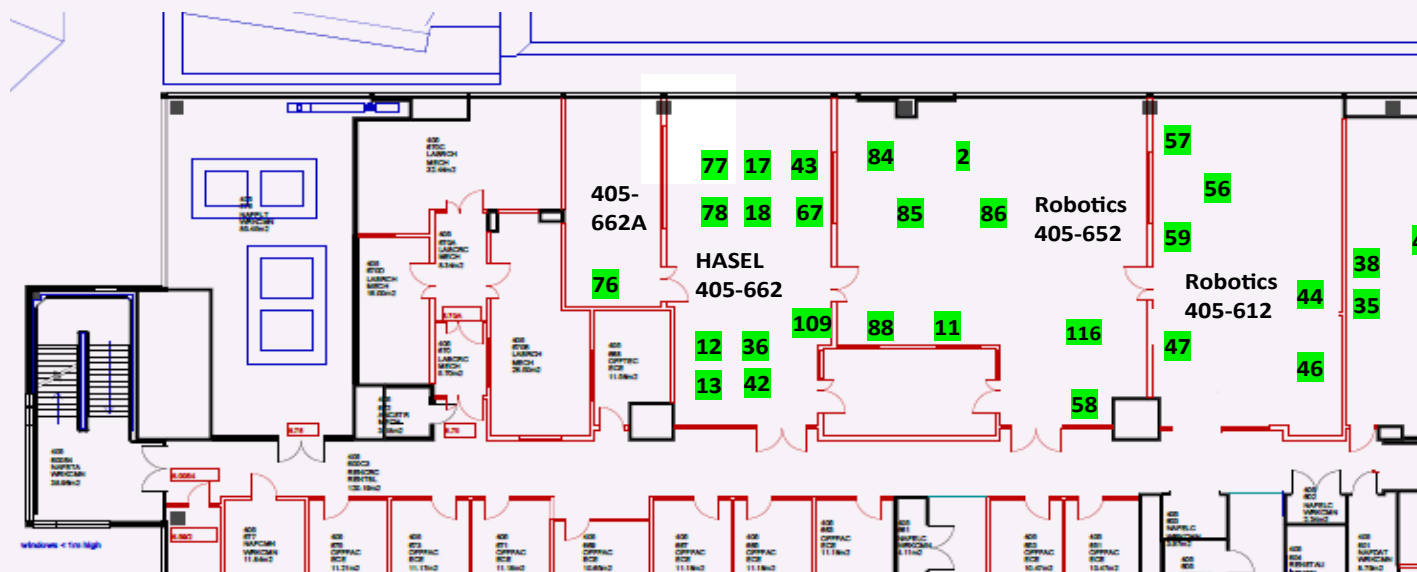
Board #	Project ID	Project name
105	128	Investigating speech communication inequity in our learning spaces
106	129	Developing automatic/machine learning methods for speech feature extraction
107	117	Enhancing Sampling Efficiency in Compressive Sensing Through Structured Randomness
Software Tools & Processes A		
108	92	Measuring the Complexity of methods
109	43	Understanding the Adoption of Metamorphic Testing in Software Development
110	76	Investigating inclusion of software engineering tools and practices
111	77	Examining client adaptations to semantic breaking changes
112	78	Examining the impact of AI in open source software projects
113	91	Understanding Software Evolution
Software Tools & Processes B		
114	93	Supporting Code Quality Evaluation in Coderunner
115	13	Can AI Learn to Write Better Code on Its Own? Reinforcement Learning for Enhancing LLM Coding Agents
116	36	A Framework for Automating Metamorphic Testing Using LLMs
117	100	AI-Assisted Generation of Academic Research Papers Using Large Language Models
118	75	AI-Driven Automated Upgrade of Legacy Systems
125	133	Making education more accessible and reliable: AI driven facilitator based Teaching
Web, Cloud & Applications		
119	120	Sustainable high-performance computing through minimisation of data transfer
120	121	SAR algorithms on Neural Processing Units (NPU) for satellite applications
121	122	Column generation algorithm for task scheduling in parallel systems
122	101	CultureLens – A Visual Analytics Framework for Mapping Mapping and Scaffolding Cultural Competencies
123	65	Scalable Platform for Hands-On Cybersecurity Education
124	68	Assessing the Performance and Scalability of MACI as a Standalone DLT Framework
Wireless Power		
126	125	Development of autonomous voltage-fed resonant converter for low power wireless charging applications
127	131	Improved Magnetics Designs for Cordless Kitchens
128	118	Wirelessly Powered Autonomous Tool-Changing Robotic Hands
129	126	A wireless interface for fast charging of robot dogs
130	41	A bidirectional wireless power control system

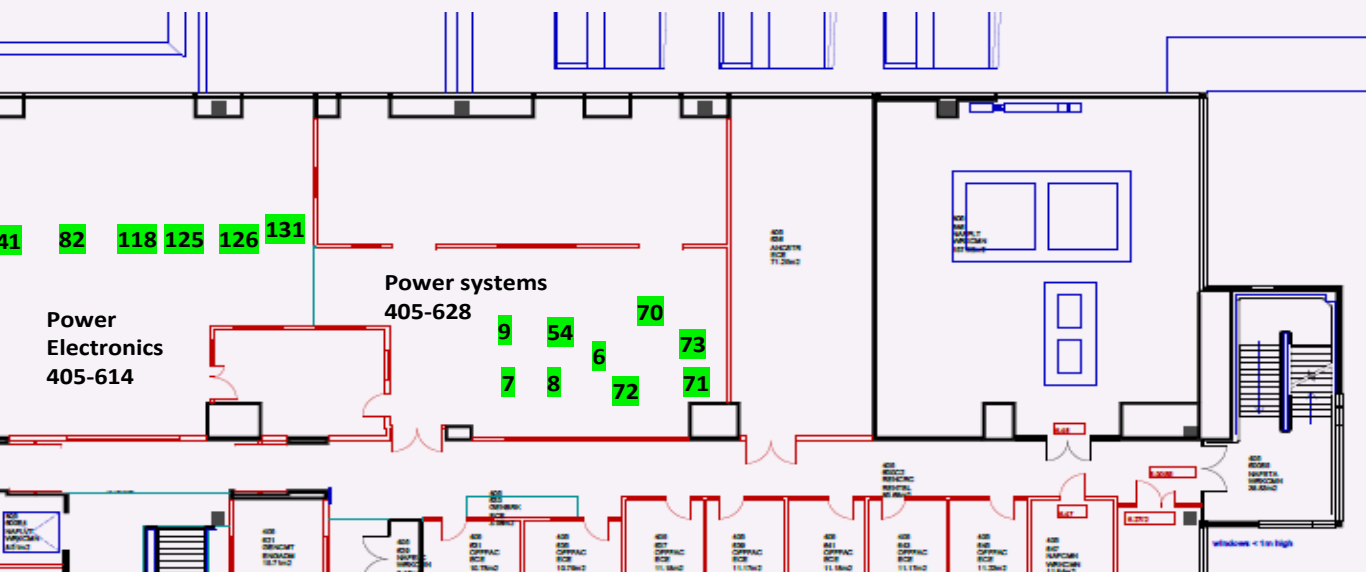
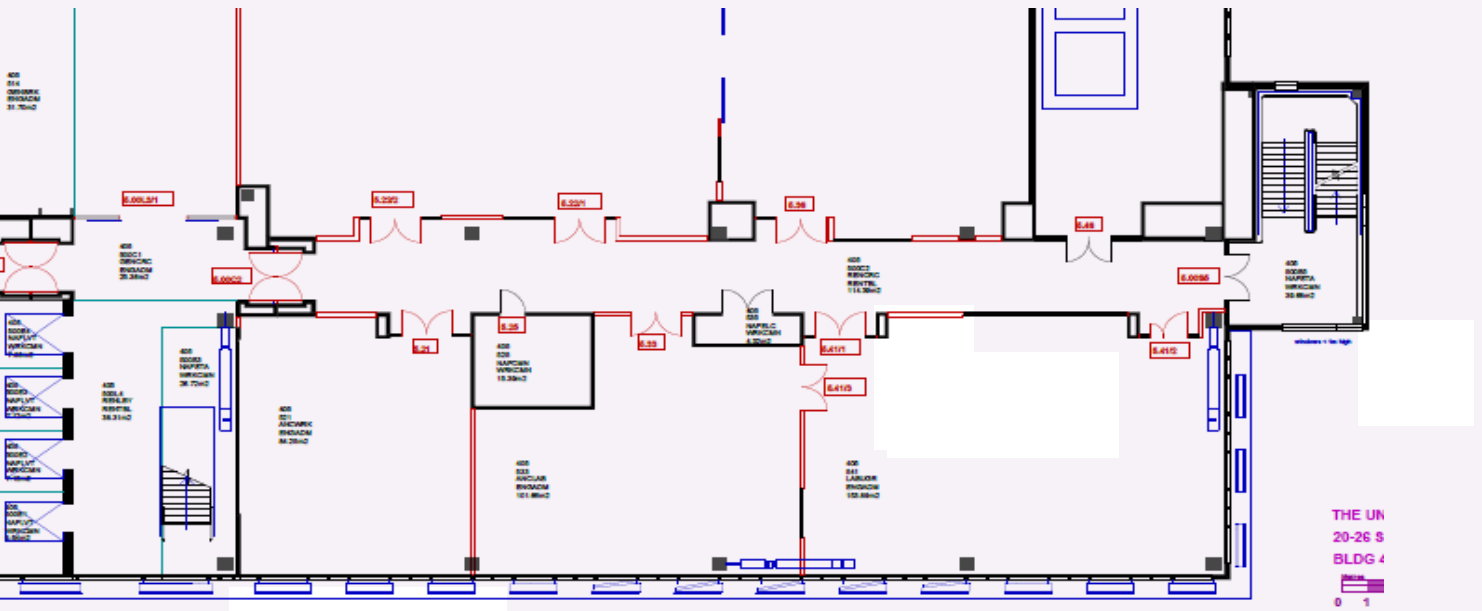
	Supervisor	Co-supervisor	Student names
	Catherine Watson		Sean Bautista , Raina Lim
	Catherine Watson		Katlyn Bell-Saunders , Junheng Chen
	William Lee	Mark Andrews	Riley Mara , Joshua Wedgwood
	Ewan Tempero		Bailey Gibson , Meara Keelty
	Valerio Terragni		Ming Ray Goy , Ethan Quach
	Kelly Blincoe		Diya Kurien , Tanmayi Pagadala
	Kelly Blincoe		Nadia Askari , Oorja Gandhi
	Kelly Blincoe		Anna Chibel , Minseo Kim
	Ewan Tempero		Nathan Theron , Jerry Zhang
	Ewan Tempero		Henry Gao , Andy Huang
	James Tizard	Henry Williams	Conrad Ang , Jacky Zhang
	Valerio Terragni		Soham Kulkarni , Nathan Turley
	Jing Sun		Jake Kim , Ethan Lau
	Jing Sun		Dhruv Erinjery , Jinhao Zhang
	Gill Dobbie		Moksh Manglani , May Thazin
	Oliver Sinnen		Hartej Bassan , Andy Zhang
	Oliver Sinnen		Gibson Gao , Adam McMann
	Oliver Sinnen		Emmanuel Araba , Lewis Azzopardi
	Burkhard Wuensche	Nasser Giacaman	Caleb Jung , Lucas Jung
	Jun Seo	Yu-Cheng Tu	Brandon Chan , Daniel Munn
	Dev Singh	Kevin Sowerby	Eason Chang , Patrick Sheng
	Aiguo Patrick Hu		Silva He , Lulu Li
	Grant Covic	Cody Yang Liu	Amanda Hao , Jessica Xie
	Seho Kim	Henry Williams	Ahil Hussain , Lemuel Vincent
	Aiguo Patrick Hu		Lyonne Abad , Khushie Juneja
	Grant Covic	Patrick Lawton	Angela Peng , Michelle Wang

B405 L5

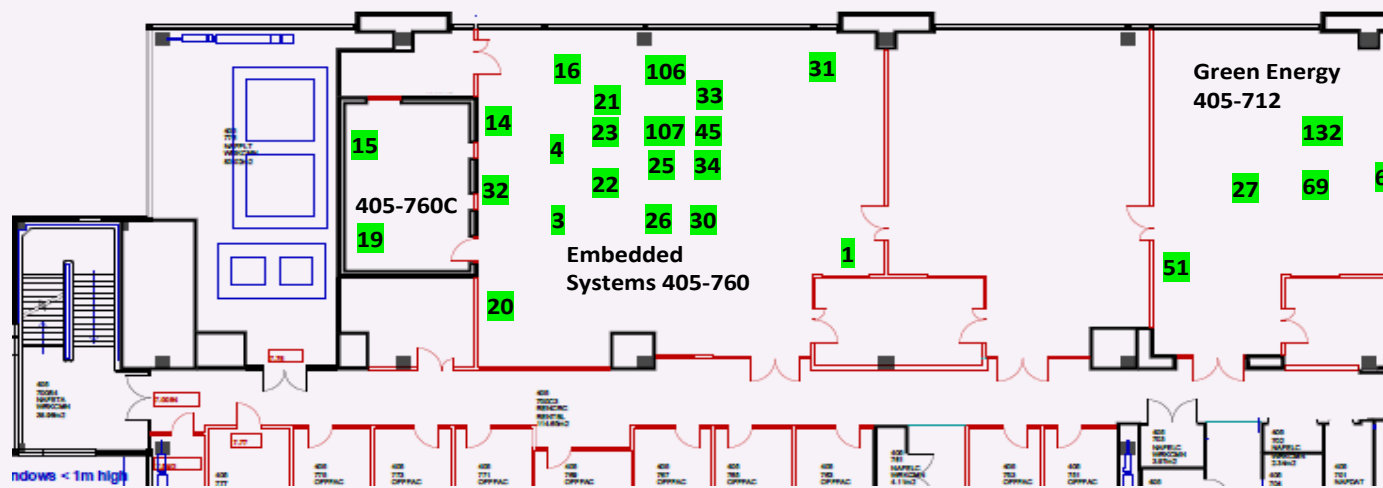


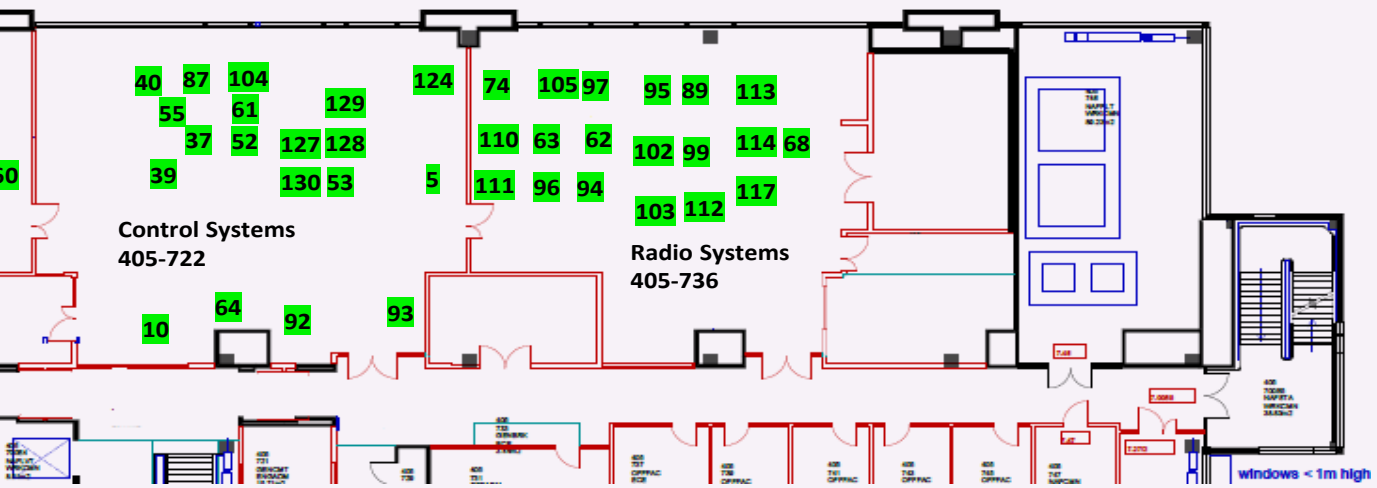
B405 L6





B405 L7





Engineering Science and Biomedical Engineering

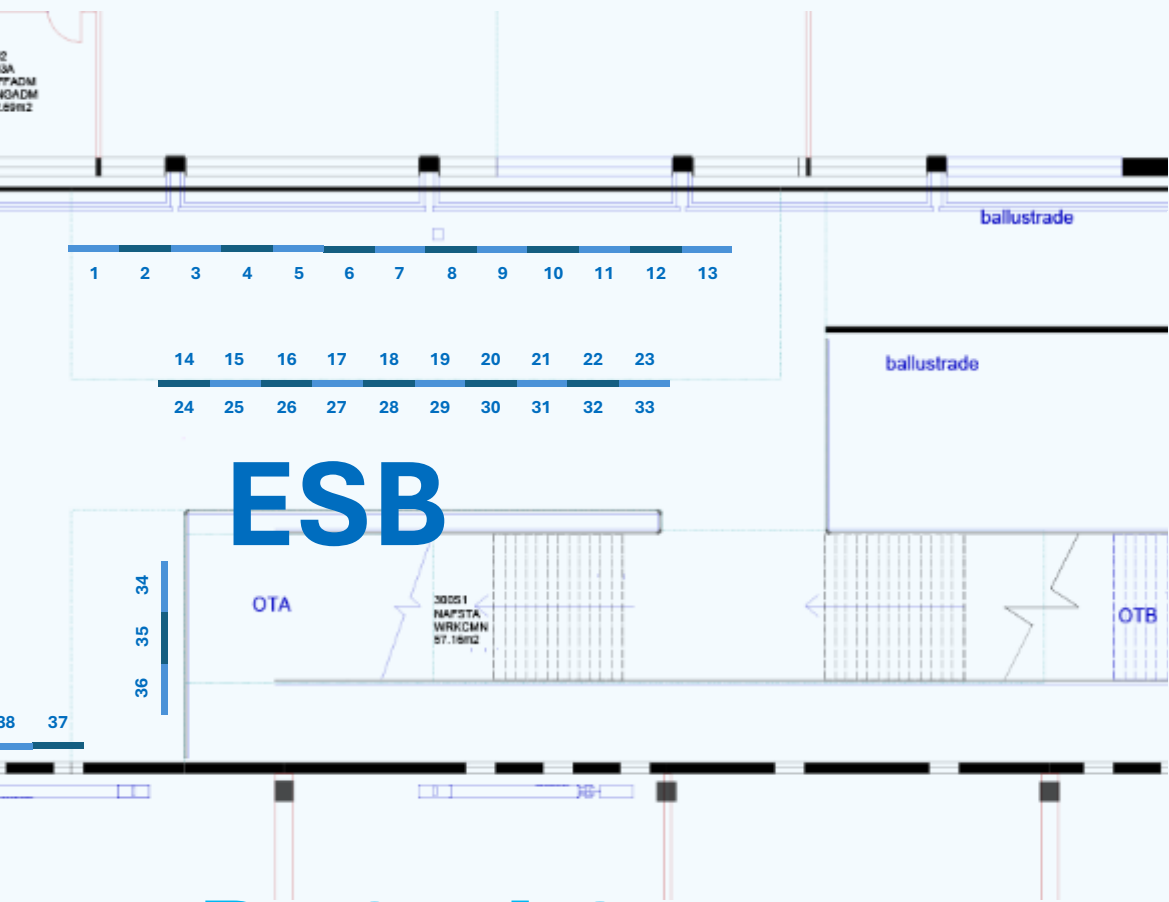
Board #	Project ID	Project name	
1	66	Bi-objective Network Centrality in transport networks and beyond	
2	67	Multimodal freight transport optimisation	
3	61	[Cross-Dept.] Anomaly detection for sensor data	
4	62	Time-series machine learning model selection framework	
5	64	Simulation of complex particle-like interactions in three-component reaction-diffusion systems	
6	23	Scheduling of Wind-Assisted Cargo Vessels	
7	40	Image Processing to Improve Traffic Flows through Roadworks with Stop/Go Traffic Lights for Fulton Hogan	
8	41	2D Stock Cutting for Fisher and Paykel	
9	14	Photo-printing microfluidic bioreactors using cell-friendly hydrogels	
10	2	Estimating competitive electricity contract prices	
11	3	University Solar Power	
12	84	Price Formation, Forecasting, and Operational Value in the NZEM	
13	82	EMG-controlled exoskeleton robot	
14	18	CDP - Intelligent restoration of early Māori and Pacific sound archives through agentic AI and signal processing	
15	33	Groundfish Survey Design	
16	34	Costing between-care travel for homecare delivery in the South Island	
17	75	Investigating the multi-predator feeding aggregations in the Hauraki Gulf	
18	8	Modelling 'Spiral Waves' in Brain Cell Networks	
19	28	Creating Classical Fractalian Musical Masterpieces from Modern Day Rock Tracks !	
20	30	Optimisation of Highly-Customisable Gel-Gyroid Biomedical Implants	
21	85	Validating and calibrating statistical models of early-stage breast cancer treatment for clinical use in New Zealand	
22	21	Linking clinical symptoms to tracheal compression in patients with thyroid goitre	
23	63	Deep Learning-Based Segmentation of Cardiac Structures	
24	19	Can we predict ankle instability?	
25	20	Can we predict hip injuries in elite male and female table tennis players?	
26	4	Computational modelling of cardiac atrial and ventricular function in diabetes	
27	29	From Micro-CT to Machine Learning: Predicting Permeability in Engineered Bone Scaffolds	

	Supervisor	Co-supervisor	Student names
	Andrea Raith		Harry Newrick (hnew638), Chris Oliver (coli772)
	Andrea Raith		Tony Bosch (tbos691), Mackenzie Rhodes (mrho451)
	Andreas Kempa-Liehr		Xinyan Chen (xche362)
	Andreas Kempa-Liehr		Scott Mouat (smou122), Trisan Ethan Q Huynh (tqhu735)
	Andreas Kempa-Liehr		Daria Barbina (dbar153), Daniel Harris (dhar714)
	Andrew Mason	Andy Philpott	Thomas Fairweather (tfai653), Alexander Fitzpatrick (afit324)
	Andrew Mason		Adam Simmonds (asim819), Harry Wingfield (hwin877)
	Andrew Mason		Melanie Kettell (mket106), Joseph Pauling-Munro (jpau410)
	Andrew Taberner		Jerry Chuang (jchu579), Riley Parsons (rpar376)
	Andy Philpott	Andrew Mason	Benjamin Guo (bguo360), Andrew Jin (ajin489)
	Andy Philpott	Andrew Mason	Charlotte Chan (ccha854), Heet Patel (hpat916)
	Andy Philpott	Andrea Raith	Kevin Cao (kcao657), Mike Shi (mshi672)
	Bryan Ruddy	Angus McMorland	Anahera Kingston (akin699), Simra Shaikh (shsa718)
	Cameron Walker	Oliver Maclaren	Amrita Maggu (amag544), Eileen Qiu (equi349)
	Cameron Walker	Thomas Adams	Nancy Wei (nwei818), Jessica Zeng (szen566)
	Cameron Walker	Thomas Adams	Zara Wong (zwon694), Victor Xie (vxie208)
	Cameron Walker	Oliver Maclaren	Hannah Berrill (hber510), Fidella Wijaya (fwij709)
	Charles Unsworth		Harriet Keehan (hkee941), Shreya Sriram (ssri456)
	Charles Unsworth		Bryn Burke (bbur178), Luobin Chen (lche668)
	Connor Pearson	Maedeh Amirpour	Mizanur Miah (mmia685), Michael Peyroux (mpey262)
	Hayley Reynolds	Cameron Walker	Louie Curnow (lcur551)
	Ho-Fung Chan	Vinod Suresh	Julia Jung (jjun879), Jena Kim (jkim933)
	Jichao Zhao		Hakeem Faider (imoh000), Joseph George (jgeo610)
	Justin Fernandez		Samuel Morris Mandell (smor466)
	Justin Fernandez		Jonah Pastiroff (jpas560), Phoebe Young (pyou182)
	Kenneth Tran	Julia Musgrave	Daniel Aviga (davi708), Awhi Marshall (amar768)
	Maedeh Amirpour	Ru Nicholson	Dhabitah Binti Hamzah (dham192), Ivy Deng (sxu557)

28	78	Stiffness tailoring of prosthetics to maximise user comfort	
29	46	Evaluating a Multimodal AI Health Coach	
30	26	Synthesising heart ultrasound from MRI and CT data for deep learning applications	
31	32	Estimating blood flow and tissue velocities from MRI using computer vision and machine learning	
32	36	Building a Bioimpedance Device to Monitor Cancer-Related Lymphedema	
33	10	Data-driven Approaches to High Frequency Trading	
34	12	Flood modelling for Wairoa & Whakakī	
35	17	Exploring Models for Land Use Decisions	
36	72	OpenMike: Systematic Development and Evaluation of Geothermal AI Agent Skills	
37	74	CDP-ESBE Machine Learning and Artificial Intelligence applied to Motorsport Data Engineering	
38	42	in-vitro motion tracking of an intragastric ballon - sensing and soft robotics	
39	5	(almost) imperceptibly shifty	
40	51	Beating heart disease - non-contact imaging for cardiovascular disease	
41	70	Leak Detection in Water Networks	
42	86	Reversible Jump Metropolis Hastings Markov Chain Monte Carlo for Extra-solar planetary system characterisation	
43	60	Geothermal steam-water separator design CFD modelling and optimising	
44	56	Automated Timetabling for the University of Auckland	
45	58	Fair Allocation of Great Walk Tickets	
46	59	AI Agents for Conceptual Modelling of Discrete Event Simulations	
47	71	Improving the Computational Performance of Binary Integer Programming Models	
48	39	Computer vision for markerless gait analysis in complex environments	
49	48	Wireless telemetry for cycling performance measurements	
50	73	AI & Digital Twin Modelling for Concussion Risk in Youth Rugby	
51	76	AI-Enabled Digital Twin Modelling of Brain Mechanics	
52	25	Simplifying DNA workflows for field applications	

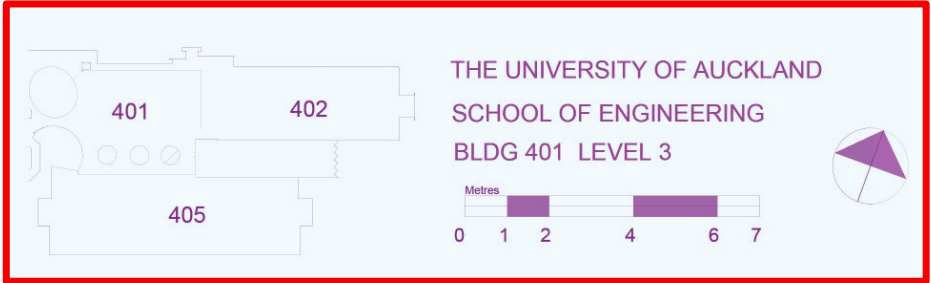
Mark Battley	Maedeh Amirpour	Mackenzie Adams (mada731), Amisha Goundar (agou682)
Mark Billinghamurst	Gonzalo Maso Talou	Andrew Mok (amok249), Sepanta Seyedsalehi (ssey266)
Martyn Nash	Vera van Hal	Alice Chen (ache975), Jennifer Zhou (jzho786)
Martyn Nash	Mathilde Verlyck	Jasraj Chadha (jcha574), Neeravh Chari (ncha509)
Massi Hesam	Iain Anderson	Mihir Raniga (mran851), Daksh Sandhu (dsan845)
Michael O'Sullivan	Cameron Walker	Connor Delaney (cdel568), Daniel Osborne (dosb979)
Michael O'Sullivan	Thomas Adams	Tony Luu (tluu816), Ray Shiu (zshi453)
Michael O'Sullivan		Aj Cocurullo-Tahu (acoc261), Rainer Gerrits (rger104)
Oliver Maclaren	Michael Gravatt	Alan Li (hli362), Mike Liu (zliu381)
Oliver Maclaren	Cameron Walker	Niket Shah (nsha182)
Peng Du	Leo Cheng	Kuntida Yookittichai (kyoo839)
Poul Nielsen		Jinchien Chang (jcha972), Joe Liu (zliu578)
Prashanna Khwaounjoo	Poul Nielsen	Jack Simmonds (jsim418), Jason Wong (jwon253)
Ru Nicholson	Oliver Maclaren	Sooyoung Park (spar473), Tharun Pillay (tpil529)
Ru Nicholson		Benjamin Wood (bwoo348)
Sadiq Zarrouk	Maedeh Amirpour	Andy Tran (qtra338), Shuhei Yokkaichi (syok443)
Thomas Adams	Cameron Walker	Emily Ha (dha524), Eshana Kumar (ekmu195)
Thomas Adams	Cameron Walker	Tom Aish (tais804), Alonso Fitzpatrick (afit055)
Thomas Adams	Cameron Walker	Cory Brown (cbro223), Samuel Chung (schu718)
Thomas Adams	Andrew Mason	Samriddhi Jaiswal (sjai563), Ava Purvis (apur448)
Thor Besier		Nicholas Dontschenko (ndon891), Oliver Rowley (orow585)
Thor Besier	Angus McMorland	Teaghan Denney (tden200), Tara McLaughlin (tmcl219)
Vickie Shim	Justin Fernandez	Yasmin Bhadha (ybha528), Lucy Reith (lrei069)
Vickie Shim	Justin Fernandez	Ryan Meng (lmen032), Jakol Zhang (ajhz318)
Vinod Suresh	Michael Hoffman	Helen Curson (hcur978), Julia Zhang (jzha628)





B405 L3

B



Mechanical and Mechatronics Engineering

Board #	Project ID	Project name
Acoustics		
1	54	Intelligent restoration of early Māori and Pacific sound archives through agentic AI and signal processing
2	114	Flaws in Floors? Rethinking Impact Noise Control Using Granular Floor Treatments
3	1	Development of a Virtual Acoustics System and Its Perceptual Reproducibility in Instrumental Performance
4	2	How do we speak in noisy spaces? developing virtual acoustics simulator for studying speaker behaviour in noise
5	99	Are rotating diffusors better than static?
6	55	Rapid Voice Adaptation for Multilingual Storytelling
7	128	Vibration monitoring for the protection of museum artifacts
8	71	Wind musical instrument microphone array for better clarity and balance
9	115	Surface Acoustic Waves (SAW) for Controlling Thawing of Frozen Micro-structures
10	53	The Space Between Us: Real-Time Sonification of Interpersonal Distance
Dynamics and Control		
11	98	*[CDP-ESBE] Machine Learning and Artificial Intelligence applied to Motorsport Data Engineering
12	124	Low-cost onboard ride height sensing for ground vehicles
13	125	Investigation of Drivability and Driver Interaction for Torque Vectoring Vehicles
14	133	A Blender-based space environment model
15	48	Harvesting Wave Energy with Gyroscopes for Autonomous Ocean Monitoring
16	105	Reinforcement Learning Methods for Mobile Robot Position Control
17	46	Ocean Balance
18	47	Managing Siltation and Harnessing Tidal Energy at the Sandspit Marina
19	123	Low-cost track surface friction measurement for FSAE
20	58	Wearable Energy Harvesting
21	51	Vibration Sensor Powered by Vibrations for Smart Condition Monitoring
Industry 4.0 Smart Manufacturing Systems		
22	91	Intelligent Shopfloor Knowledge Acquisition through Egocentric Video-based Demonstration Learning
23	92	WeldWatch: Real-Time Quality Monitoring for Legacy Welding Machines
24	73	Automated Manufacturing Cell Design for Industrial Process Enhancement
25	94	Digital Manufacturing Light

Supervisor	Co-supervisor	Student names
Justine Hui		Charlie Brunton (cbru047), Daniel Ryu (dryu303)
Andrew Hall	George Dodd	Leonardo D'Ambros-Smith (ldam917), Curtis Maclean (cmac377)
Yusuke Hioka		Matte Hol (mhol250), Pomare Kaire (pkai230)
Yusuke Hioka		Wayne Liang (jlia948), Abhijot Malhi (amal783)
George Dodd	Andrew Hall	Isabella Chen (iche428), Phoebe Williamson (pwil422)
Justine Hui		David Wu (dwu617), Jay Yuan (jyua529)
Mark Jeunnette		Braeden Fisher (bfis965), Gina Van Niekerk (gvan573)
Andrew Hall	George Dodd	Michaela Abbenes (mabb997), Lucas Wongso (lwon290)
George Dodd	Andrew Hall	Robbie Couper (rcou530), Daniel Stretton (dstr542)
Justine Hui		Wilhelmina Li (wli798), Katrina Xing (kwan797)
Daniel De Mel		Finn Gordon (fgor787)
Daniel De Mel		Raymond Nightingale (rnig735), Ash Tyler (htyl682)
Daniel De Mel		Travis Hutchison (thut580), Jack Millar (jmil737)
Roberto Armellin		Cole Murray (cmur725), Prem Kumar Tamilselvam (ptam469)
Vladislav Sorokin		Armani Martin (amar704), Dante Martin (dmar494)
Hazim Namik		Kimberley Lam (klam376), Crista Sanvictores (csan114)
Vladislav Sorokin	Kean Aw	Will Southee (wsou903), Brandon Yiu (byiu331)
Vladislav Sorokin		Sophia Webb (sweb390), Philip Wu (pwu278)
Daniel De Mel		Jacob Daley (jdal353), Karl Macpherson (amac853)
Lihua Tang		Bobbie Atendido (bate521), Phillip Chhour (pchh683)
Lihua Tang		Stirling Bennett (sben564), Kabir Bhargava (kbha969)
Jan Polzer		Dylan Chand (dcha468), Leo Poliko (lpol945)
Jan Polzer		Sujan Galpottage (sgal263), Zac Ginever (zgin653)
Jaspreet Dhupia	Xun Xu	Johnson Du (jdu853), Dylan Parkin (dpar783)
Jan Polzer		Duy Le (mle063), Dylan Sutton (dsut709)

Board #	Project ID	Project name
26	63	Development of a DM Light Testbed and Industrial Applications
27	61	Advanced Decentralised Orchestration for Smart Factories
28	62	Advanced Cloud-Based Machining-as-a-Service (MaaS) Framework
29	81	Orchestration for Adaptive Manufacturing Planning based on an Autonomous AI Agent
30	93	AI Powered Mobile Quality Inspection for Manufacturing
31	76	Edge AI for Health Condition Monitoring of Industrial Rotary Assets
32	40	Safe Robot Control Using Vision-Language-Action Models
Mechatronics		
33	122	Development of tactile perception apparatus.
34	3	Smart Agriculture: Distributed Sensors
35	15	Fabrication of Soft Flexible Sensor Using Ultrasoic Spray Coating
36	16	In-Situ Moisture Sensing of Timber Structure
37	86	Optimisation of HYNDS Pokeno's Radial Press Concrete Pipe Production Line
38	52	Real-time transcriber glasses
39	34	Full Swing: Haptic controller for golf training
40	45	ADCP gauging boat rope traveller
41	74	Development of a Novel, Real time Telerobotic Medical Screening System for Ocular Assessment
42	75	Underwater Robotics Test Bed
43	101	Electret-Based Angle Sensor for Robotic Joints with Self-Powered Sensing Capability
44	41	Robust autonomous docking and traversal of robotic motorway barriers
Biomechatronics/Medical Devices		
45	43	Development of an Actuated Gastric Simulator for In-Vitro Intragastric Balloon Testing
46	132	Patient airway ventilation revisited
47	36	A new medical device for correcting posture
48	27	Walking Gait Monitoring and Analysis using Gyroscope
49	97	EFD fabrication of conducting polymer sensor arrays
50	37	Applying rehabilitation control methods to office workers through a robotic chair
Design/Systems Engineering		
51	78	CubeSat Payload Interface Module (PIM) Design and Verification
52	32	Production line automatic part sorter system (Chocolate delivery system)
53	5	Adaptive Chassis Stiffness for Mobile Robot Control
54	31	Welding-based robot DED additive manufacturing system
55	33	3D printed bicycle generator

Supervisor	Co-supervisor	Student names
Xun Xu	Jan Polzer	Jake Hasler (jhas917), Daniel Tolosa (dtol781)
Xun Xu		Cameron Gally (cgal160), Finn Luxton (flux465)
Xun Xu		Nikail Rubanand (nrub019), Devon Wilken (dwil916)
Xun Xu		Rishant Kumar (rkmu470), Jed Ethan Sanchez (jsan813)
Jan Polzer		Mark Chan (mcha833), Gabriel Kan (qkan386)
Jaspreet Dhupia		Taiyi Du (tdu824)
Peter Xu	Yuqian Lu	Jayden Clark (jcla755), Alex Taylor (atay777)
Jonathan Stringer		Ollie Barton-Hills (obar199), Callum McMillan (cmcm317)
Kean Aw		Blake Gruner (bgru726), Alexander Russell (arus530)
Kean Aw		Kaemon Ah Kuoi-Simich (kahk161), Sumner Hancock (shan333)
Kean Aw		Hunter Pirret (hpir641)
Peter Xu		Connor Browne (cbro989), Milan Kennedy (mken566)
Justine Hui		Ben Costello (bcos422), Tavish Puri (tpur744)
Andrew McDaid		Tomas Barrero Ortiz (tbar971), Aadesh Ganugapati (agan859)
Vladislav Sorokin	Andrew Hall	Cael Anand (cana544), Hiro Austen (haus879)
Jaspreet Dhupia		Tyler Fairbairn (tfai092), Andrew Young (ayou303)
Jaspreet Dhupia		Euphilia Kaur (msin609), Anthony Kwok (akwo440)
Lihua Tang		Xuan Khang Nguyen (xugn489), You Ran Wang (wany079)
Peter Xu		Kaelin Graf-Ogilvie (kgra470), Adam Wright (awri757)
Peter Xu		Bryan Kim (bkim420), Hui Wu (zwu591)
Andrew McDaid		Isla Burton (ibur427), Aiswarya Gayathri Shyju (agay279)
Andrew McDaid		Daniel Hulm (dhul688), Miki Ronconi-Morani (mron793)
Kean Aw		Johnny Curtis (jcur152), Parth Visnagara (pvis772)
Peng Du	Peter Xu	Paul Lahari (plah275), Vin Lai (vlai276)
Andrew McDaid		Henry Croft (hcro730), Elsa Ly (ely207)
Benjamin Taylor		Kala Payinda (kpay633), Louis Young (lyou975)
Olaf Diegel		Rohan Kanagasundaram (rkan756), Eesha Mahimkar (emah834)
Daniel De Mel	Tom Allen	Jonty Clark (jcla431), Siva Sankaran Sriram (ssri357)
Olaf Diegel		Luke Ryan (lrya284), William Steiner (wste800)
Olaf Diegel		Nicholas Hutt (nhut042), Luka Jeremic (ljer106)

Board #	Project ID	Project name
56	60	Exploring Intersections of Culture and Design in Engineering Education
57	79	Investigation of Low-Reflectivity Dragsail Materials, and stowage and deployment processes
58	126	Autonomous NPK sampling and mapping of a pasture using a drone
59	127	Small-plot crop health monitoring using satellite and aerial remote sensing data in developing countries
60	129	Predicting the Spread of Wilding Conifer Pines
61	87	Mapping and forecasting orbital debris re-entry footprints
62	89	Investigating the usage and impacts of satellite data in New Zealand
63	90	*[CDP-CEE] Understanding the factors preventing the re-balancing of gender representation in the engineering consulting industry/leadership
Mechanics of Materials and Manufacturing Processes		
64	130	Experimental and numerical investigation of buckling in conical CFRP shells with cutouts for aerospace applications
65	103	Stretching the Limits: Optimising Drawing Parameters for High-Strength Microfibrillar Polymer Blends
66	17	Mechanical and functional properties of polymer nanocomposites
67	14	Potential of Textile Waste as Reinforcements in Composites
68	13	Manufacturing of rotomoulded products containing reinforcement
69	10	Processing of basalt fabric-reinforced biopolymer composite materials
70	131	Bio-Inspired Surface Geometry and Chemical Stabilizers for Polymer Durability under UV Exposure
71	109	Engineering Sustainable Solutions: Bio-Based Structural Thermal Breaks for Low-Carbon Construction
72	95	Transforming Coffee Waste into Sustainable Polypropylene Composites via Water-Enriched Plasma
73	121	An investigation into hybrid natural-carbon fibre composite systems, examining the trade-off between sustainability and mechanical performance
74	120	An investigation into the performance of flexible composite hydrofoil structures using hybrid natural-carbon fibre laminates
75	119	Fibre structure preservation in recovery of carbon and glass fibres from end-of-life and scrap fibre reinforced polymer composites
76	117	Investigating the manufacture and properties of natural fibre-biopolymer composites using plasma jet treatment to improve interfacial bonding
77	84	Monitoring development of fatigue damage in composite structures
78	83	Thermoplastic composites manufactured from randomly oriented discontinuous tape sections
79	102	Small Fibrils, Big Impact: Transforming Waste Thermoplastics into Microfibrillar Composites using Plasma Treatment Technique
80	12	Construction of Sandwich Panels Using Bottle Caps Core and Thermoplastic or Metal skins
81	11	Production of waste polymer-sand composite panels

Supervisor	Co-supervisor	Student names
Stephen Kavermann		Terina Rokx-Thompson (trok095), Janhavi Singh (jsin385)
Benjamin Taylor		Matthew Prance (mpr118), Tyler Sangster (tsan986)
Mark Jeunnette		Cael Dines (cdin268), Dayton Henry (dhen760)
Mark Jeunnette		Michael Alexoiu (male477), Alexei Pepers (apep160)
Mark Jeunnette		Ryan Andrews (rand321), Lachlan Campbell (lcam453)
Priyanka Dhopade		Thomas Baddeley (tbad483), Luke Canovan (lcan243)
Priyanka Dhopade		Samuel Chen (sche525), Lucas Pryce (lpry623)
Priyanka Dhopade		Chris Pen (kpen526), Thivina Senevirathna (tsen239)
Tom Allen		Ella Arnold (earn712), Yi Shun Thong (ytho155)
Nam Kyeun Kim		Jeno Jeon (jjeo627), Sandeep Sandhu (ssan467)
Krishnan Jayaraman		Lucas Quiroz Frankland (lqui812), Krisha Raju (kraj720)
Krishnan Jayaraman		Emily O'Connor (eoco327), Anisha Parbhu (apar588)
Krishnan Jayaraman		Gabriel Chapman (gcha636), Hayden Cheng (hche864)
Krishnan Jayaraman	Nam Kyeun Kim	Nicholas Huang (nhua986), Dalbir Singh (dsin316)
Johan Verbeek		Martin Lawson (mlaw649), Daniel Petersen (dpet289)
Johan Verbeek	Tom Allen	Imogen Wood (iwoo382), Zara Zoll (zzol692)
Jesna Ashraf	Johan Verbeek	James Haywood (jhay868), Michael Xing (mxin499)
Arcot Somashekar		Sam Scott (ssco465), Bruno Vaughan (bvau704)
Arcot Somashekar		Eli Lesoa (eles952), Xavier Metivier (xmet073)
Arcot Somashekar		Joshua Lewis (jlew699), Daniel McNaughton (dmcn107)
Arcot Somashekar		Johan Kritzinger (jkri024), Claudia Nieves (cnie825)
Nicola Shepherd	Simon Bickerton	Uzayr Ali (uali517), Tadiwa Masiyakurima (tmas673)
Nicola Shepherd	Simon Bickerton	Angela Kwan (ykwa219), Matthew Loh (mloh302)
Nam Kyeun Kim		Hayden Leung (hleu459), Zane Williams (zwil198)
Krishnan Jayaraman		Ario Brougham (abro523), John Oandasan (joan333)
Krishnan Jayaraman		Kieran Keshvara (kkes170), Christen Schonberger (csch806)

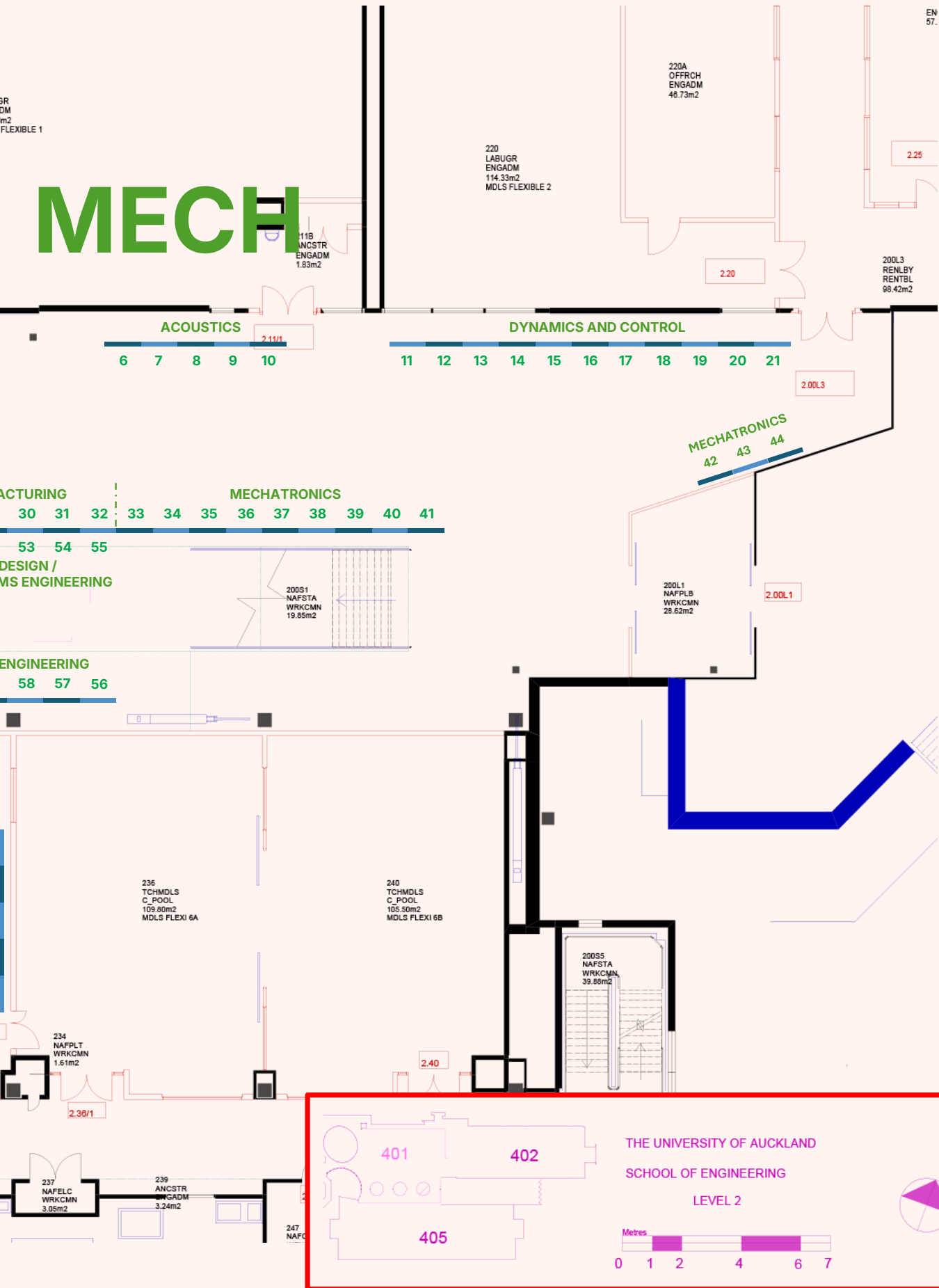
Board #	Project ID	Project name
82	30	Novel methods to manufacture E-textiles
83	118	Investigating the manufacture and properties of microfibrillar biopolymer-biopolymer composite tapes
Aero-Fluid-Hydrodynamics		
84	85	Development of Aerodynamically Efficient Suspension Arms for a Formula:SAE Car
85	59	Exploring design improvements across multiple domains for a small-scale vertical-axis wind turbine
86	44	Aerodynamics of a Green Turtle-Shell-Inspired Building Structure Under Tropical Cyclone Wind Conditions
87	21	Wind Sensing from a Fixed-Wing UAV
88	20	Large Vehicle Wakes and their impact on Passers-by
89	26	Turbulent boundary layer unsteady pressure measurement
90	23	Aerodynamic analysis and optimisation of a state-of-the-art VTOL system
91	100	Multi-Modal Multi-Directional Wind Energy Harvesting
92	29	Using laser texturing to enhance bond strength for 3D printed microfluidics
93	82	Thermal management of wirelessly charged hypercars
94	72	Water Motion Energy Harvesters: Mapping NZ's geographical features and optimizing designs
95	7	Wind Pressure Loading on High Rise Buildings
96	6	Aerodynamic Interaction of Yacht Sails
97	69	Conceptual Design and Prototype Development of a Total Artificial Heart (TAH) System
98	49	An Instrumented Portable Building Platform for Research on Green, Healthy, And Weather Resistant Homes
99	113	CFD study of atmospheric pollution dispersal in an urban environment
100	112	Validity of RANS to model turbulent drag reduction using shark skin inspired riblets for internal pipe flow in a manufacturing context
101	111	Aerofoil optimisation for low Reynolds number aerodynamics
102	110	Understanding Riverbed Hydrodynamics: CFD Investigation of Porous Media Effects on Turbulent Flow
103	25	Development and Analysis of a Rowing Foot Stretcher Force Measurement System
104	28	How do 3D printing parameters affect surface wettability?
Thermodynamics and Heat Transfer		
105	88	CFD study of laminar radial jet mixing and recirculation in a closed tank
106	64	Innovative Thermal Management Solution for High Power Wireless EV Charging Systems
107	96	TAOM (Te Ahi O Maui) Geothermal power plant vaporiser mineral scaling investigation
Space Systems		
108	38	Hold Down and Release Mechanism
109	77	Damping mechanism for passive deployable spacecraft structures
110	4	Steering a Solar Sail: Attitude Simulation, Dynamics, and Control

Supervisor	Co-supervisor	Student names
Jonathan Stringer		Rosheen Bajaj (rbaj698), Athithi Mathavasivam (amat407)
Arcot Somashekar		Alan Chen (ache725), Ian Xiao (ixia229)
Tom Allen		Irina Kishi (ikis164), Ben MacSweeney (bmac148)
Stephen Kavermann		Max Davies (mdav506), Jake Stafford (jsta466)
Rajnish Sharma		Isabel Macgregor (imac384), Archi Patel (apat750)
Nicholas Kay		Thomas Enright (tenr289), Qiuyang Zheng (qzhe981)
Nicholas Kay		Will Clausen (wcla871), Jamie Eskildsen (jesk756)
Michael Kingan		John Villanueva (jvil318), Andre Williams (awil907)
Michael Kingan		Rohan Batley (rbat374), Sachith Ranathunga (sran136)
Lihua Tang		Bangzheng Li (bli482), Louie Yu (wyu523)
Jonathan Stringer		Daniel Lobo (dlob194), Kevin Paul (kpau893)
Connor Pearson	Tom Allen	Trey Pata (tpat456), Dean Zhao (dzha497)
Andrew Hall	Vladislav Sorokin	Tom Sinclair (tsin304), Helen Wen (hwen116)
Stuart Norris		David de Vaal (ddev582), Jean Du Plessis (jdup494)
Stuart Norris		Hugo McMullen (hmcm582), Callum Toft (ctof106)
Rajnish Sharma		Mikaela Campo (mcam799), Sevan Dalzell (sdal739)
Rajnish Sharma		George Ge (gge561), Chi-Ching Yang (cyan312)
Michael MacDonald		James Austin (jaus241), Moutaz Khair (amhk647)
Michael MacDonald		Oscar Guo (oguo680), Richard Lin (rlin108)
Michael MacDonald		Chris Benzie (cben375), Campbell Stewart (cste189)
Michael MacDonald		Mason Crowley (mcro807), Benjamin Silipo (bsil719)
Michael Kingan		Hannah Rye (hbou314), Isla Westlake (iwes050)
Jonathan Stringer		Mohammed Abudaheer (mabu241), Kiara Oza (koza379)
Priyanka Dhopade		Ishraq Bhuiyan (ibhu708), Luke Senior (lsen376)
Rajnish Sharma	Simon Bickerton	Toby Baird (tbcd601), Ethan Teoh (eteo952)
Sadiq Zarrouk		Sebastian Mckenzie (smck855), Tailah Thodey-Hunia (ttho743)
Guglielmo Aglietti		Jake Schofield (jsch842), Xander Snyman (xsny378)
Guglielmo Aglietti		Jack Bamford (jbam701), Jack Sunthorn (jsun284)
Roberto Armellin		Tristan Barclay (tbar968), Conrad Hart (char451)

Board #	Project ID	Project name
111	50	To Maneuver or Not? Can a Large Language Model Act as a Spacecraft Operator?
112	39	Deployment of telescopic barrels for spacecraft optical instruments
113	70	Development of a Two-Stage CubeSat Deployment Pod for RPO and Deep Space Missions
114	116	Microvibrations and torque measurement device for RWA
Robotics		
115	56	No-code Robot Control - Instructing Robots Using Natural Language
116	107	Developing a Virtual Testing Environment for Mobile Robot Testing
117	8	Touch Based Sensors for Dexterous Robotic Manipulation
118	80	Automated Detection and Geolocation of Caulerpa Using an Embedded Vision System
119	57	Robotic Planning and Execution for Automated Screw Driving in Cold-Formed Steel Structures
Drone Technology		
120	67	*Fully-Actuated UAV Control for Canopy Sampling
121	65	Aerial screwdriving for vertical poles
122	9	Multi-Agent Reinforcement Learning based Navigation for Autonomous Drones
123	66	Autonomous Football Drone
124	68	Sensor Deployment Drone
125	19	Flight Testing Fixed-Wing UAVs in a Wind Tunnel

Supervisor	Co-supervisor	Student names
Roberto Armellin		Luke Blackburn (lbla772), Kyle Mcvey (kmcv530)
Guglielmo Aglietti		Serge Carroll (scar362), Justin Chen (cche873)
Guglielmo Aglietti	Benjamin Taylor	Nitya Das (ndas832), Aastha Patel (apat824)
Guglielmo Aglietti		Brodie Cruse (bcru157), Matthew McGill (mmcg745)
Yuqian Lu		Lennon Lu (llu744), Ross Yao (zyao804)
Hazim Namik		Cameron Adams (cada577), Jonathan Zhao (ajhz444)
Henry Williams		Sarah Keam (skea516), Phyliss Lan (plan310)
Henry Williams		Rhys Chittenden (rchi339), Alex Kerr (aker238)
Yuqian Lu		Chris Lobo (clob269), Nithu Krishnaa Mahesh Babu (nmah920)
Karl Stol		Jimin Ahn (jahn224), Tianling Lu (tlu253)
Karl Stol		Raaghav Batra (rbat561), Finlay Hayes (fhay330)
Henry Williams	Karl Stol	Louie Liu (lliu182), Matthew McAuley (mmca276)
Karl Stol		Luke Morrow (lmor438), Damon Rickman (dric234)
Karl Stol		Jack Bruce (jbru537), Chris Dsilva (cdsi208)
Nicholas Kay		Lachlan Dean (ldea753), Stanley Tian (stia357)







eeee

