

EVENT SCHEDULE 3 October 2019

Location:

AUT, WZ Building, 6 St Paul St, Auckland 3.30pm-5.30pm, Project exhibition

Exhibitions:

- Bachelor of Engineering (Honours)
 - Electrical and Electronic Engineering
 - Mechanical Engineering
 - Mechatronics Engineering
 - Software Engineering
 - Construction Engineering (Built Environment)
 - Architectural Engineering (Built Environment)
- Bachelor of Engineering Technology
 - Electrical and Electronic Engineering
 - Mechanical Engineering
 - Computer & Mobile Systems Engineering
 - Network & Communications Engineering
- · Postgraduate Diploma in Engineering
 - Mechanical Engineering
 - Electrical & Electronic Engineering

First Name	Last Name	Title	Poster #
BACHELOR OF ENGINEERING (HONOURS) IN MECHANICAL ENGINEERING			
Ziyad	Adam	Standing Desk	1
Haneen	Alqam	Design a Smart Surgical Suture with Smart Memory Polymers	2
Abdullah	Bajuayfir	Design a Device to Support a Leg Weak Muscle for Poliomyelitis Disease	3
Dalton	Clark	Rotational Moulding of Silicone Arteries	4
Fletcher	Clark	Feasibility of Heat Recovery in an HVAC Refrigeration System	5
Sam	Croft	Motorcycle Frame Design	6
Beau	Daley Roberts	Heat Dissipation for Stirling Test Rigs	7
Patrick	Domett	Knee Unloading Implant	8
Ghader	Egebarah	Design Optimisation of Radiofrequency Tissue Ablation using Simulation	9
Liam	Foley	Cardiovascular Simulator Resistance	10
Sam	Givan	Design of a Minimally Invasive Surgery Device to Treat PAES	11
Jose Marie	Inoncillo	Recycling/Upcycling of Hardboard Sheets	12
Nick	Jones	Design of Novel Stent for Hemorrhage Control	13
Matthew	Kingsford	Fatigue & Failure Characteristics of Ti 15–3	14
Oscar	Mahy	Upcycling Milk Bottle Machine Design	15
Nabeel	Mazhar	Design & Performance of a System to Collect Plastic Waste from the Ocean	16
Matt	Cotton	Design & Performance of a System to Collect Plastic Waste from the Ocean	17
Darren	Travers	Design & Performance of a System to Collect Plastic Waste from Coastal Areas	18
Joel	Mercer	Analysis of the Flow past Insects and other Small Organisms	19
Andrew	Murdoch	Self Bailer Development	20
Tarun	Nallur	Bike Dynamics Investigation	21

First Name	Last Name	Title	Poster #
Ali	Panju	Heart Pump for Cardiovascular Simulator	22
Berj	Panossian	Uniflow Opposed Piston Engine Stress Analysis	23
Zac	Hyde	Design of Minimally Invasive Traction Device	24
Sagar	Patel	Textile Sensor to Measure Breathing &	25
Divya	Ranchhod	Heart Rate	
Jonathan	Rabey	Piston Cylinder Bore Dynamic Analysis	26
Dylan	Shepherd	Piston Seals	27
Ajay	Singh	Multi-layered, Insulating Manifold Design for IC Engines	28
Hannah	Tyrell	Feasibility Study to Explore Polymer/ Metal Waste Separation by Cold Waste Utilisation	29
Nick	Van Der Geest	Design an Artificial Wing for a Sea Turtle	30
Jing Hui	Wong	Fatigue Properties of Solid Parts & Lattice Struts	31
Shuo	Xu	Validate the Bolt FEA Tool within Solidworks against VDI2230	32
Jiaxu	Niu	Industrial Robot (ABB) Programming	33
**Jesse Zixi	Wang		
Mitch	Bridges	*Telecommunications Cabinet Cooling	35
Samuel	Farmer	*Cooling Tunnel	36
Thomas	Henson	*eBicycle Development - Seat Support Structure & Suspension	37
Romney	Koraua	*Superconductor Saddle Coil, Assembly Design	38
Adam	Murley	*Additive Manufacturing for Industrial Spares	39
Bas	Pengpala	*Chocolate Melt Rate	40
Marc	Spires		
Bryce	Saavedra	*Packaged Part Counting	41
Brad	Shanks	*Heatpipe/ Thermosyphon Performance	42

^{*}These posters are confidential and are displayed in WZ421
**Student is from MECHATRONICS ENGINEERING major

First Name	Last Name	Title	Poster #
POSTGRADUATE DIPLOMA IN MECHANICAL ENGINEERING			
Sanket	Dhemare	TIG Welding of Boron/ Boron Free Steels	45
Markkumar	Patel		
Abin	Thomas		
BACHELOR OF	ENGINEERING TEC	HNOLOGY IN MECHANICAL ENGINEERING	
Eric	Kurnia	*Nasal Stent	50
Nathan	Montano		
Miguel	Rasalan		
Ishara	Kuruvita	*Cooling Tunnel	51
Tabu	Taboru	*Redesign of Thermocouple Protection Tube	52
Manesh	Badhan	*Design of Novel Face Mask Breathing	53
Prasant	Kumar	System	
Christian	Unu	Simulate Airflow Through Diabetes	54
Finau	Vea	Sensor	
Nasser	Aldosari	Design & Fabrication of Metallic Bipolar	55
Fahad	Algethami	Plates for Proton Exchange Membrane Fuel Cell	
Sriwantha	Hewage	ruei Ceii	
Parth	Patel	Design & Fabrication of Metallic Bipolar	56
Abdulaziz	Alhajri	Plates for Proton Exchange Membrane Fuel Cell	
Mohammad	Alshammari	ruei Ceii	
Etienne	De Haan		
Faisal	Alqahtani	Design a Minimally Invasive Skull Traction Device	57
Eugene	Clarkson	Alternative Motorcycle Front Suspension	58
Evan	Dcruze	Fishing Rod Strike & Reel Combo	59
Mitchell	Donnelly	Rugby Scrum Machine	60
Juergen	Faamau	Friction Stir Lap Welding of Al to Ti:	61
Junjie	Xu	Depositing Interlayer by Friction Stir	
Roshan	Tayalan		

^{*}These posters are confidential and are displayed in WZ421

First Name	Last Name	Title	Poster #
Khairi	Faizal	Wind Tunnel	62
James	Mccloy		
Sana	Khan Azmi	Design a New Instrument for Pediatric Laparoscopic Surgery	63
Amjad	Mohideen	TIG Welding of Boron/ Boron Free Steels	64
Kurt	Russell		
Wen Jun	See		
Tom	Morley	Upcycling Milk Bottle Machine Design	65
Adam	Moss		
Dylan	Ngatai		
Henare	Turia		
Pooja	Nair	Feasibility Study to Explore Polymer/ Metal Waste Separation by Cold Waste Utilisation	66
Divnesh	Narayan	Design Mechanism for Standing Desks	67
Justin	Willis	Standing Desk	68
Rushal	Patel	Use of Solar Energy to Heat Domestic Homes	69
Krishant	Rupan	Multi-Layered, Insulating Manifold Design for IC Engines	70
Maurice	Sisel	MMA Taget Design	71
Vibin	Wilson		
Angelo	Tabora	Air Flow Meter Calibration	72
Takumi	Shimura	AA-CAES: Characterisation of Air Motor Performance	73
Yuwei	Wu	Cardiovascular Simulator Test Bed	74
BACHELOR OF ENGINEERING		NOURS) IN ELECTRICAL AND ELECTRONIC	
Meshari	Almutrafi	Transformer Testing System	80
Mitchell	Brown	Underwater WPT for Drone Charging	81
Henry	Chan	Low Noise H-bridge Convertor for Valve	82
George	Xia	Amplifier	

First Name	Last Name	Title	Poster #
Arpana	Korshapati	Design of Protection Relay Testing System	83
Jessica	Maitland	Landing Craft Power System	84
Theophilus	Zobule	Power System for Solomon Islands	85
Udara	Mihindukulasuriya	Power Flow Analysis of a Pacific Island Power System	86
Micah	Fleming	A flexible RPi Embedded Controller Platform	87
Ryan	Crawford	*Artificial Muscle Brace	88
Sebastian	Jimenez	Robotic Location Lighthouse	89
Sophie	Hergot	Water Quality	90
Kevin	Cho	Design of Protection System for Power Systems with Distributed Generator	91
Kenji	Quik	PCB Design for Analysing Environmental	92
Sahil	Sathe	Conditions for Safer Automated Driving	
Ho Yin	Chiu	Traffic Light Control	93
**Tan	William		
BACHELOR OF	ENGINEERING (HO	NOURS) IN MECHATRONICS ENGINEERING	i
Kieran	Nelson	Self-balancing Camera Mount	94
Blake	Campbell	*Automation of Floatation Tank	95
Liam	Hawking		
Ryanel	Reynon		
Renzo	Zuleta Icaza		
Nicholas	Bowyer	Robotic Building Blocks	96
Jono	Crezee-Tetteroo		
Jake	Hunt		
Daniel	Sinclair		
Monique	Cooper	EEG Headset	34
Joel	Gatland		
Amritpal	Kaur		

^{*}These posters are confidential and are displayed in WZ421
**Student is from MECHATRONICS ENGINEERING major

First Name	Last Name	Title	Poster #	
POSTGRADUATE DIPLOMA IN ENGINEERING				
Kai	Kang	Smart Parking System	97	
BACHELOR OF ENGINEERING	BACHELOR OF ENGINEERING TECHNOLOGY IN ELECTRICAL AND ELECTRONIC			
Celina	Abo	In-House Baby Safety Project	100	
Mohammed	Al Subait			
Fahad	Alajmi	IoT Integrated Healthcare Application	101	
Ahmad	Alslimany			
Alvie	Zhang			
Mohamed	Aldarraje	Induction Heating	102	
Ali	Alzawad	Electrostatic Cleaner Machine	103	
Saad	Bin Shuhaywin			
Philip	Ballocanag	Aircraft Pitch Control System	104	
Mohammad	Barnawi			
Sigmund	Bangcong	AUT Biodigester – Feasibility Study	105	
Young Jun	Yu			
Ange	Basham	Electronic Aid for Interpretation of RF Hazard Zones Safety States	106	
Sara	Bekhit	Solving Business Problems Using Al	107	
Jarod	Chand	Traffic Light System for a Single Lane Bridge	108	
Yu	Chen	Wind Power Street Light	109	
Prateek	Grover	Water Quality Monitoring Device	110	
Martin	Van Woerden			
Madrid	Helu	*Pump Control System	111	
Lolo	Lauhingoa			
Moana	Uesile			
Ben	Hessell	Low Voltage Grid Control in a Changing Distributive	112	
		Generation and Consumption Environment		

^{*}These posters are confidential and are displayed in WZ421

First Name	Last Name	Title	Poster #
Tinashe	Itayi	Monitoring System for Vineyard	113
Pritesh	Lalit		
Maham	Khanazmi	*Remote Earth Monitoring System	114
Jock	Low	Fall Down Dectection on Home Indoor Camera	115
Stephane	Meynaert	Solar Powered Traffic Light System for	116
Gurneet	Rehsi	Single Lane, Long Bridge	
Devinda	Munasinghe	Building a 15 V, 1A (RMS) 3-phase Power Supply	117
Francis	Pamatian	Online Tracking of In-Home Food Consumption	118
Marc	Quiambao	Water Management with IPT IIOT System	119
Sohil	Rafiq	Portable Solar Powered Water Purification System	120
Sidney	Sea	Monitoring of Minuature Greenhouse Environment	121
Rajat	Sharma	Machine Learning for Smart Ambience Application based on IoT Concept	122
BACHELOR OF	ENGINEERING (HO	NOURS) IN SOFTWARE ENGINEERING	
Marco	Abuyan	Job Coster System	125
Gandhar	Paranjape		
Paul Christian	Apino	*Project Raptor – VR Enhancement	126
Michelle	Extross		
Maitreyee	Pande		
BACHELOR OF	ENGINEERING (HO	NOURS) IN BUILT ENVIRONMENT ENGINE	ERING
Нао	Gong	Black Ladder Construction Apartments	130
Adarsh	Prasad		
Timothy	McGeever-Heap		
Matthew	Yau		

^{*}These posters are confidential and are displayed in WZ421

First Name	Last Name	Title	Poster #
Nathaniel	Cheah	Infinity Development Apartments	131
Michael	Rojos		
John	Loay		
Sunny	Wang		
Amber	Nelson	MOANA Apartments	132
Jeremy	Teng		
Uwin	Lewke Bandara		
Divya	Kataria		
Jalal	Irfani	POLLY'S PARK Apartments	133
Blair	Tilson		
Michael	Clarke		
Andrea	Smith		
Alison	Но	Group 8 Apartments	134
Amy	Yang		
Cecilia	Wang		
Trang	Phong		
Joshua	Snell	Horizon Apartments	135
Sai Krishna	Allam		
Rick	Sinclair		
Liam	Breach		
Bevan	Kosasih	Mangrove Park Residence	136
Mary	Atonio		
Josua	Alcones		
Kevin	Yang		
Jugraj	Singh Bains	RAND Apartments	137
Shuai	Liu		
Jack	Dohnt		
Kate	Molony	WAIHANGA Apartments	138
Zyad	Alotaiby		
Simran	Singh		
Mariam	Taha		



School of Engineering, Computer & Mathematical Sciences

Level 1, WZ Building 6 St Paul Street Auckland Central, New Zealand

www.aut.ac.nz