

KEVIN TANG

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EDUCATION

The University of Auckland	2017 – 2020
BE(Hons) in Electrical and Electronic Engineering	
Papatoetoe High School, Auckland	2012 – 2016
NCEA Level 3	

PROJECTS

<i>Bidirectional Underwater Wireless Charger – Part 4 Project</i>	March 2020 – Present
• Designed and modelled IPT pads for AUV charging	
<i>Wireless Powered RC Car</i>	March 2020 – June 2020
• Designed power electronics circuits to be used for an RC car race	
<i>Flappy Bird Game Clone</i>	April 2019 – May 2019
• Created a VGA controller with front and back porch on an FPGA	
• Coded using VHDL to play Flappy Bird with multiple game modes	
<i>Wireless Energy Monitor</i>	July 2018 – Oct 2018
• Programmed a CPLD with VHDL to display values and units	
• Programmed an ATmega328PB to transmit via UART	

TECHNICAL SKILLS

Programming Languages: C, C++, HTML+CSS, LaTeX, MATLAB, Python, VHDL

Software Knowledge: Altium Designer, Arduino IDE, Atmel Studio, DiaLUX, COMSOL Multiphysics, Git, LTSpice, ModelSim, PLECS, Quartus, uPyCraft

Hardware Knowledge: FPGAs, Microcontrollers (Arduino + MicroPython), Oscilloscope, Soldering, Waveform Generators

WORK AND VOLUNTEER EXPERIENCE

<i>Cawthron Institute, Nelson – Cawthron Foundation Scholar</i>	Nov 2019 – Feb 2020
• Awarded the Sir Theodore Riggs Scholarship	
• Prototyped and tested an accelerometer chain and data logger for an offshore mussel farm	
• Debugged coworker's electronics and provided electronics training	
<i>University of Auckland, Auckland – UniGuide</i>	Semester One 2019
• Led new university students around campus to familiarise them to the university environment	
• Provided mentorship to new students to help them succeed	
<i>Countdown Manukau, Auckland – Checkout Operator</i>	2017 – 2018
• Assisted customers in finding products resulting in positive customer feedback	
• Taught new employees how to push trundlers efficiently and operate the checkout machines	
• Completed New Zealand Certificate in Retail – Level 2	

EXTRACURRICULAR ACTIVITIES AND CERTIFICATIONS

- 2019 and 2020 IEEE University of Auckland Student Branch Executive Committee Member
- 2019 Part III and 2020 Part IV EEE Class Representative for the ECSE Staff-Student Consultative Committee
- New Zealand General Amateur Radio Operator – Callsign: ZL1KTA

HOBBIES

- Learning new foreign languages
- Playing the guitar
- Field Hockey – Played for Papatoetoe High School's 1st XI (2013-2016)