

KEVIN TANG

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EDUCATION

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

PROJECTS

<i>Bidirectional Underwater Wireless Charger – Part 4 Project</i> <ul style="list-style-type: none">Modelled IPT pads and electromagnet for AUV chargingDesigned a unidirectional and bidirectional IPT circuit	March 2020 – Present
<i>Wireless Powered RC Car</i> <ul style="list-style-type: none">Designed power electronics circuits to be used for an RC car race	March 2020 – June 2020
<i>Flappy Bird Game Clone</i> <ul style="list-style-type: none">Created a VGA controller with front and back porch on an FPGACoded using VHDL to play Flappy Bird with multiple game modes	April 2019 – May 2019
<i>Wireless Energy Monitor</i> <ul style="list-style-type: none">Programmed a CPLD with VHDL to display values and unitsProgrammed an ATmega328PB to transmit via UART	July 2018 – Oct 2018

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> <ul style="list-style-type: none">Awarded the Sir Theodore Riggs ScholarshipDesigned and developed an embedded system to track g-forces at different locations and log data for an offshore mussel farmDesigned a PCB and wrote code in Python to alter data logging frequenciesDebugged electronic systems already in use and provided electronics training	Nov 2019 – Feb 2020
<i>University of Auckland, Auckland – UniGuide</i> <ul style="list-style-type: none">Led new university students around campus to familiarise them to the university environmentProvided mentorship to new students to help them succeed	Semester One 2019
<i>Countdown Manukau, Auckland – Checkout Operator</i> <ul style="list-style-type: none">Assisted customers in finding products resulting in positive customer feedbackTaught new employees how to push trundlers efficiently and operate the checkout machinesCompleted New Zealand Certificate in Retail – Level 2	2017 – 2018

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 and chess
- Field Hockey – Played for Papatoetoe High School's 1st XI (2013-2016)