

KEVIN TANG

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EDUCATION

<i>The University of Auckland</i>	2017 – 2020
BE(Hons) in Electrical and Electronic Engineering with Second Class Honours First Division	
<i>Papatoetoe High School, Auckland</i>	2012 – 2016
NCEA Level 3	

WORK EXPERIENCE

<i>KanDO Innovation, Auckland – Electrical Engineering Intern</i>	Dec 2020 – Mar 2021
<ul style="list-style-type: none">Conducted a proof of concept for non-contact glove sensing in bandsaw operationPerformed electrical subassembly work for Guardian Bandsaws	
<i>Cawthron Institute, Nelson – Cawthron Foundation Scholar</i>	Nov 2019 – Feb 2020
<ul style="list-style-type: none">Awarded the Sir Theodore Rigg 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	
<i>Countdown Manukau, Auckland – Checkout Operator</i>	2017 – 2018
<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	

PROJECTS

<i>Light Spectroscopy Sensor App</i>	May 2021 – Present
<ul style="list-style-type: none">Designed a spectroscopy analyser to view the spectral response of different materialsBuilt an Android app using Kotlin to control microcontroller and sensor and plot readings on a graphCurrently designing PCB on Altium Designer to include Qi wireless charging	
<i>Bidirectional Underwater Wireless Charger – Part 4 Project</i>	Mar 2020 – Nov 2020
<ul style="list-style-type: none">Modelled IPT pads and electromagnet for AUV chargingDesigned a unidirectional and bidirectional IPT circuit	
<i>Personal Website</i>	Mar 2020 – Apr 2020
<ul style="list-style-type: none">Built and designed personal website with HTML+CSS using the Foundation framework to showcase portfolio	
<i>Wireless Energy Monitor</i>	July 2018 – Oct 2018
<ul style="list-style-type: none">Programmed a CPLD with VHDL to display values and unitsProgrammed an ATmega328PB to transmit via UART	

TECHNICAL SKILLS

Programming Languages: C/C++, HTML+CSS, Kotlin, MATLAB, Python, VHDL

Software Knowledge: Altium Designer, Arduino IDE, Atmel Studio, DiaLUX, COMSOL Multiphysics, Git, LaTeX, LTSpice, ModelSim, PLECS, Quartus, Salesforce, uPycraft, Visual Studio

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

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 AND INTERESTS

- Playing the guitar and chess (Part of the Papatoetoe Chess Club)
- Field Hockey – Played for Papatoetoe High School's 1st XI (2013-2016)
- Following Formula 1 and basketball