

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 operation• Performed 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 Scholarship• Designed and developed an embedded system to track g-forces at different locations and log data for an offshore mussel farm• Designed a PCB and wrote code in Python to alter data logging frequencies• Debugged 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 feedback• Taught new employees how to push trundlers efficiently and operate the checkout machines• Completed New Zealand Certificate in Retail – Level 2	

PROJECTS

<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 charging• Designed a unidirectional and bidirectional IPT circuit	
<i>Wireless Powered RC Car</i>	Mar 2020 – June 2020
<ul style="list-style-type: none">• Designed power electronics circuits to be used for an RC car race	
<i>Flappy Bird Game Clone</i>	Apr 2019 – May 2019
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 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, MATLAB, Python, VHDL

Software Knowledge: Altium Designer, Arduino IDE, Atmel Studio, DiaLUX, COMSOL Multiphysics, Git, LaTeX, LTSpice, ModelSim, PLECS, Quartus, 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
- Learning new foreign languages