

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

Bidirectional Underwater Wireless Charger – Part 4 Project Mar 2020 – Nov 2020

- Modelled IPT pads and electromagnet for AUV charging
- Designed a unidirectional and bidirectional IPT circuit

Wireless Powered RC Car Mar 2020 – June 2020

- Designed power electronics circuits to be used for an RC car race

Flappy Bird Game Clone Apr 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

Wireless Energy Monitor 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, MATLAB, Python, VHDL

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

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

WORK AND VOLUNTEER EXPERIENCE

Cawthron Institute, Nelson – Cawthron Foundation Scholar Nov 2019 – Feb 2020

- 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

University of Auckland, Auckland – UniGuide 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

Countdown Manukau, Auckland – Checkout Operator 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 and chess
- Field Hockey – Played for Papatoetoe High School's 1st XI (2013-2016)