KEVIN TANG

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EDUCATION

The University of Auckland 2017 – 2020
BE(Hons) in Electrical and Electronic Engineering with Second Class Honours First Division

Papatoetoe High School, Auckland 2012 – 2016
NCEA Level 3

WORK EXPERIENCE

KanDO Innovation, Auckland – Electrical Engineering Intern Dec 2020 – Mar 2021
- Conducted a proof of concept for non-contact glove sensing in bandsaw operation
- Performed electrical subassembly work for Guardian Bandsaws

Cawthorn 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

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

PROJECTS

Light Spectroscopy Sensor App May 2021 – Present
- Designed a spectroscopy analyser to view the spectral analysis of different materials
- Currently learning Kotlin and Android Studio to build an app to control microcontroller and plot readings on a graph

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

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, Kotlin, 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