

# 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>Rear Light Transmitter</i> <ul style="list-style-type: none"><li>• Able to send and receive speed of vehicle ahead once it brakes</li><li>• Designed several circuits and provided research</li><li>• Delegated tasks to group members</li></ul>	April 2019 – June 2019
<i>Flappy Bird Game</i> <ul style="list-style-type: none"><li>• Programmed an FPGA with VHDL to play Flappy Bird</li><li>• Able to play multiple game modes and contains multiple new features</li></ul>	April 2019 – May 2019
<i>Wireless Energy Monitor</i> <ul style="list-style-type: none"><li>• Programmed a CPLD with VHDL to display values and units</li><li>• Programmed an ATmega328PB to transmit via UART</li></ul>	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, Git, LTSpice, ModelSim, 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"><li>• Awarded the Sir Theodore Riggs Scholarship</li><li>• Prototyped and tested an accelerometer chain and data logger for an offshore mussel farm</li><li>• Debugged coworker's electronics and provided electronics training</li></ul>	Nov 2019 – Feb 2020
<i>University of Auckland, Auckland – UniGuide</i> <ul style="list-style-type: none"><li>• Led new university students around campus to familiarise them to the university environment</li><li>• Provided mentorship to new students to help them succeed</li></ul>	Semester One 2019
<i>Countdown Manukau, Auckland – Checkout Operator</i> <ul style="list-style-type: none"><li>• Assisted customers in finding products resulting in positive customer feedback</li><li>• Taught new employees how to push trundlers efficiently and operate the checkout machines</li><li>• Completed New Zealand Certificate in Retail – Level 2</li></ul>	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
- Participated in the University of Auckland ChipSat Hackathon

## HOBBIES

- Learning new foreign languages
- Playing the guitar
- Field Hockey – Played for Papatoetoe High School's 1<sup>st</sup> XI (2013-2016)