

Wei Tat Lee

Electronics and Software engineering graduate with extensive programming skill in embedded systems. Currently looking for an internship or full-time graduate roles.

EMAIL weitat95@live.com
PHONE +44 (0) 7511 429386
GITHUB [/weitat95](https://github.com/weitat95)
WEBSITE weitatlee.com

EDUCATION	MSc Computer Science , The University of Edinburgh Thesis: "An Investigation on the security aspects of blood pressure monitoring devices" Sep 2018 - present
	BEng Electronics and Software Engineering , The University of Edinburgh Undergrad thesis: " Demonstration of Visible Light Communication using LED(s) " Sep 2014 - May 2018
	BEng Computer Engineering , The University of Texas at Austin Visiting Exchange Student Aug 2016 - May 2017
SKILLS	Proficient Python, C, Java, Hadoop, SQL, PCB Designs Prior Experience C++, web development, Android development, Haskell, MATLAB, Javascript Areas of Interest Embedded Systems, Security, Internet Of Things Languages NATIVE: English, Mandarin PROFICIENT: Cantonese, Malay, Hokkien
EXPERIENCE	Graduate Project June 2019 - present <ul style="list-style-type: none">Found security vulnerabilities in the QardioArm Blood Pressure monitoring deviceUsed WireShark to reverse engineer communication packetsDeployed a Men in the Middle attacks Undergraduate BEng Project Aug 2017 - May 2018 <ul style="list-style-type: none">Built the whole system to demonstrate visible light communication using LED(s)Programmed Texas Instrument(TI) launchpad (ARM Cortex M4) to interface with the componentsDeveloped an RTOS embedded system for both the transmitter and the receiver in C programming language Lead Assistant Coach , Edinburgh Chinese Badminton Club - <i>Edinburgh, UK</i> Sep 2017 - present <ul style="list-style-type: none">Led a team of assistant coach in assisting badminton coaching sessions.Organized and managed local badminton tournamentsGetting qualified as UKCC Level 1 Scotland Coach Team Member , UT Austin Autonomous Racing Team - <i>Austin, TX</i> Sep 2016 - May 2017 <ul style="list-style-type: none">Developed and programmed the drone's control system, which is a SISO nonlinear feedback control systemProgrammed and tweak the RTOS to increase overall response time of the drone
PROJECTS	Knowing Where to Reduce: Efficient Methods for Image Captioning – GitHub <ul style="list-style-type: none">Image captioning using encoder-decoder architecture with PyTorchInvestigated the effect of having an adaptive over soft attention mechanisms in LSTMs architecture Reconstruction of Office from a Set of 3D Point Clouds – GitHub <ul style="list-style-type: none">Used MATLAB to reconstructed the inside of a office from a set of 3D point clouds acquired from an Intel RealSense depth sensor that was moved to scan different views Room Occupancy Monitoring – GitHub <ul style="list-style-type: none">Designed and prototype an end to end IoT system that consists of the embedded systems (C), the mobile application (Java) and visualization dashboard (JavaScript). Paxos – GitHub <ul style="list-style-type: none">Built an simulated a distributed protocol to solve consensus in a network of unreliable nodesDeveloped mainly using Java Socket LibrariesThis paxos protocol assumes no Byzantine Failures The IoT – GitHub <ul style="list-style-type: none">The IoT, an IoT system that regulates temperature and logs data into a cloud server programmed in CCapable of sensing gas leaks and sends alerts to user through mobile text messages by using Twillio ApisThe IoT also uses google app engine (GAE) cloud Apis to store temperature data
AWARDS & RECOGNITION	Racing Competition, UT Austin 2016 Pegasus has been awarded the first prize in the UT Austin Racing Competition International Exchange Program, University of Edinburgh 2015 Being selected among 10 student to participate in the international exchange program to the University of Texas, At Austin