

Wei Tat Lee

Electronics and Software engineering graduate with extensive programming skill in embedded systems.

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EDUCATION	MSc Computer Science , The University of Edinburgh Thesis: " An Investigation on the security aspects of blood pressure monitoring devices " BEng Electronics and Software Engineering , The University of Edinburgh Undergrad thesis: " Demonstration of Visible Light Communication using LED(s) " BEng Computer Engineering , The University of Texas at Austin Visiting Exchange Student	Sep 2018 - Dec 2019 Sep 2014 - May 2018 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	Research Intern , University of Edinburgh - <i>Edinburgh, UK</i> • Conduct a study on the security vulnerabilities on blood pressure monitors. Undergraduate BEng Project • Built the whole system to demonstrate visible light communication using LED(s) • Programmed Texas Instrument(TI) launchpad (ARM Cortex M4) to interface with the components • Developed 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> • Led a team of assistant coach in assisting badminton coaching sessions. • Organized and managed local badminton tournaments • Getting qualified as UKCC Level 1 Scotland Coach Team Member , UT Austin Autonomous Racing Team - <i>Austin, TX</i> • Developed and programmed the drone's control system, which is a SISO nonlinear feedback control system • Programmed and tweak the RTOS to increase overall response time of the drone	June 2019 - present Aug 2017 - May 2018 Sep 2017 - present Sep 2016 - May 2017
PROJECTS	Knowing Where to Reduce: Efficient Methods for Image Captioning – GitHub • Image captioning using encoder-decoder architecture with PyTorch • Investigated the effect of having an adaptive over soft attention mechanisms in LSTMs architecture Reconstruction of Office from a Set of 3D Point Clouds – GitHub • 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 • 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 • Built an simulated a distributed protocol to solve consensus in a network of unreliable nodes • Developed mainly using Java Socket Libraries • This paxos protocol assumes no Byzantine Failures The IoT – GitHub • The IoT, an IoT system that regulates temperature and logs data into a cloud server programmed in C • Capable of sensing gas leaks and sends alerts to user through mobile text messages by using Twilio Apis • The IoT also uses google app engine (GAE) cloud Apis to store temperature data	
AWARDS & RECOGNITION	Racing Competition, UT Austin Pegasus has been awarded the first prize in the UT Austin Racing Competition International Exchange Program, University of Edinburgh Being selected among 10 student to participate in the international exchange program to the University of Texas, At Austin	2016 2015