

PERSONAL PARTICULARS

Name : LAU CHUN KIT
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EDUCATION

Hong Kong University of Science and Technology (HKUST) BEng in Computer Engineering	Hong Kong Sep 2014 - Sep 2018
Universitat Politècnica de València (UPV) Exchange student in Computer Engineering	Valencia, Spain Feb 2017 - Jun 2017

HONORS AND AWARDS

The 10th NXP® Freescale Cup Intelligent Car Competition 2015 Merit award <ul style="list-style-type: none">- Designed and built a firmware for Arm® Cortex®-M4 Kinetis K60 MCU to control a full automated car to run on a track- Used inductors to sense the magnetic field generated by the single AC powered wire on the middle of the track- Applied P controller for turning and PI controller for speed control- Designed a control system and algorithm to use the voltage induced by inductors on the car as input to control the car to complete the track with crosses and sharp turns- Optimized the firmware and fine-tune the car with my own grapher (Google extension)	Xiamen, China Jul 2015
The 11th NXP® Freescale Cup Intelligent Car Competition 2016 Second class award <ul style="list-style-type: none">- Designed and built a firmware for Arm® Cortex®-M4 Kinetis K60 MCU to control a two-wheeled full automated car to run on a track- Use inductors to sense the magnetic field generated by the single AC powered wire on the middle of the track- Designed a control system and algorithm to use the voltage induced by inductors on the car as input to control the car to complete the track with crosses and turns- Applied PD controller for angle control using the result from complementary filter on IMU output- Implemented Fuzzy Logic PD controller for turning- Designed algorithm to control car speed while keeping the inverted pendulum system stable- Optimized the firmware and fine-tune the car with my own grapher (Google extension) (Watch Video here)	Changsha, China Jul 2016
Imagine Cup 2017 by Microsoft Hong Kong Ltd. Best UI Award <ul style="list-style-type: none">- Built a chat-bot system for interview using natural language processing- One of Elite 8 teams	Hong Kong May 2017

EXPERIENCE

The Hong Kong University of Science and Technology HKUST Robotics Team Member & Mentor <ul style="list-style-type: none">- Represented HKUST in 2014-2015 National Freescale SmartCar (China)- Sub-team leader who collaborates with 15 teammates	Hong Kong Sep 2014 - Jul 2016
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UStThing**Co-founder**

- UStThing is a team made up of passionate and talented students who work towards the continual betterment of the app and the HKUST student community. Mainly provide iOS and Android applications to let HKUST students have easy access to University's basic services
- Major Android developer in early stage

Hong Kong

Aug 2016

ARTRO Digital Ltd.**Freelance Web developer**

- Built company websites with React and Node.js

Hong Kong

Jun 2017 - Apr 2018

BHL Technology Ltd.**Python Programmer**

- Engineered a system to control robot running on Robot Operating System(ROS)
- Built modules with multiple programming languages (Python, C, Node.js)
- Programmed an embedded application for Cortex-M3 core device to control motors/servos
- Conducted Hardware testing

Hong Kong

Aug 2018 - Mar 2019

SoarStack Tech Solutions Ltd.**Freelance Software Engineer**

- Engineered modern commercial platforms for companies with Node.js, React, MySQL and AWS cloud services
- Efficiently deployed and integrated software and wrote integration / deployment bash scripts, dockerfile and docker compose file
- Designed, built and maintained modules for company internal purchase system with Java, Apache MyFaces and Oracle Database

Hong Kong

Apr 2019 - Jun 2022

Freelance Embedded System Engineer

- Analyzed, designed and developed embedded system hardware and software solutions
- Built firmware for MCU with WiFi module to control motors in the product
- Designed a WebSocket server running on the firmware to provide client requested API

Hong Kong

Nov 2019 - Jun 2022

SKILLS

Languages

Cantonese (Native)
English (Proficient)
Mandarin (Proficient)

Programming Languages & Libraries

General-purpose: C/C++, Python, Java, VisualBasic, VisualBasic.Net(VB.NET), Rust
Web (Backend): Node.js, Typescript, PHP
Web (Frontend): Javascript, jQuery, CSS, Bootstrap, HTML, React
Database: MySQL, MongoDB, InfluxDB, Oracle Database
Unix: Bash
Cloud: AWS Cloud Services
Other: Git, OpenCV, Robot Operating System(ROS), Docker, Docker Compose

Hardware Engineering

Control System Design, Embedded System Design, PCB Design (Hand-on), Soldering, Microcontroller Programming (STM32, STM8, Freescale Kinetis, AVR)

Machine Learning Tools

TensorFlow, Keras, PyTorch