Aaron Low Weng Soon

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Education

Imperial College London **2019 - Present**
PhD in Machine Learning and Computer Vision

Supervisors: Kim Tae-Kyun and Loy Chen Change

Research topic: 3D Hand Pose Estimation.

Imperial College London **2014 - 2018**
Electrical and Electronic Engineering MEng

First Class Honours

Dean's List (top 10% of class) Year 2

Selected modules: Linear Algebra • Probability and Stochastic Processes • Machine Learning • Computer Vision • Algorithms and Complexity • Parallel Computing • Optimisation

Thesis: Depth to Colour Translation for 3D Hand Pose Estimation From Monocular RGB With Generative Adversarial Networks

HELP Academy **2013 - 2014**
Edexcel A-Levels

4 A* Chemistry • Physics • Mathematics • Further Mathematics

Work Experience

HELP University **2020 - Present**
Lecturer, Faculty of Computing and Digital Technology

Programming and machine learning lecturer. Designed the syllabus for an artificial intelligence course.

Imperial College London **2016**
Undergraduate Teaching Assistant, Introduction to Computer Architecture

Provided teaching in ARM assembly programming tutorials.

Materialise Malaysia **2016**
Software Engineer Intern

Large scale C++, C# development. Designed and developed a Microsoft Paint inspired application from scratch in C++.

Accenture Malaysia **2015**
Solution Architect Intern

Development of front end retail system dealing mainly with system analysis and testing.

Projects

Autonomous Snack Delivery Android (ASDA) **2017**
Development of Robot Navigation

Autonomous robot that is capable of manoeuvring a building and taking an elevator to obtain and deliver snacks.

ARMadillo **2017**
Development of Instruction Set and Emulator.

ARM7TDMI assembler and simulator in F#, cross-compiled using FABLE into a JavaScript Electron app.

Emocoaster 2017

Lead C# Developer

Runner-Up ("Best Game"). Emotion matching game built using Microsoft Cognitive Services.

NeuroSpell 2016

Python Developer

Low-cost brain computing interface that allows motor impaired people to type by looking at an on-screen keyboard.

ParkWare 2016

Web Developer

Prize Winner ("Best use of Amazon Web Services"). Parking space detection web service using machine learning to detect cars in parking lots.

EEBug 2015

Project Manager and C programmer

Line following robot that uses IR LEDs and detectors to follow a line programmed on an Atmel Attiny 85.

Heat Pipe Cooling Design System for Osram LED Luminaires 2014

Researcher

Proposal and research for new design of heat sinks in LED.

Technologies

Programming: Python • C++ • C#

Web Development: HTML • CSS • JavaScript

Frameworks: PyTorch • TensorFlow • Keras • Git • Unity • ROS

Operating Systems: Windows • Linux

Responsibilities

Imperial College London Game Development Society 2015 - 2018

Co-founder and Secretary

Founded a platform for students to discuss game design and develop games in teams. Provided free tutorials on game development using C# and Unity.

HELP University Tabletop Society 2013

Co-founder and Vice President

Founded a platform for students to play boardgames together. Acquired sponsors to provide free boardgames for students to play.

Massively Open Online Courses (MOOCs)

Deep Learning Specialization by Andrew Ng (Coursera) **2018**

Awards

School Achiever Scholarship Award (SASA) **2013**

Full scholarship for A-levels at HELP Academy.

Skills

Languages: English • Malay

Hobbies: Juggling • Breakdancing • Movies • Reading • Yoga
