

STEPHEN MING HAN CHAI

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Experienced IT executive involved in small to large scale project developments. Stay up to date with current global technology trends and needs through studying, developing proof of concepts and prototypes then deploying consumer-centric applications. Enthusiastic and eager learner who is determined to grow and expand personal value wishing to utilise opportunities in organisations. Aimed to contribute technological insights and knowledges in cooperation with people from multiple fields.

RELEVANT SKILLS

Electrical and Electronics

- MEng Electronic Engineer with Computer Systems graduate trained with systematic and structural project planning, management and execution in mind.
- Good understanding in computer architecture and programming, testing and debugging eg. SoC, real time embedded devices, ASIC processor, microprocessors, FPGA, mainstream processors.
- Solid knowledges in system programming for the Smart Meter on board control systems in second year final project, smart speedboat monitoring dashboard system in final year project.
- Experienced in building small to medium scale of Internet of Things (IoT) platforms, using various market-ready devices such as Raspberry Pi 3, Arduino. Able to work with individual sensor and communication modules as well with knowledge in designing Printed Circuit Board (PCB).

Computer Science and Software Engineer

- Research and prototype various IoT-based projects, using Raspberry Pi 3, Arduino boards, wireless switches and various sensor modules.
- Augmented Reality/Virtual Reality/Mixed Reality applications development targeting mobile and web platforms on Unity3D, HTML5 and WebGL platforms.
- Basic understandings of Blockchain development.
- Implement various machine learning POCs focusing on computer vision solutions (OpenCV libraries). Building classifier and prediction engine using various popular machine learning architecture, such as TensorFlow, Caffe2 Develop deployable web based systems in building frontend, backend and communication APIs.
- Dealing with implementation of various popular social media or cloud services APIs in developing applications. Creating webhook for communication tunnel.
- Worked with basic data entry, data sorting and data analysis.
- Design, build, and maintain web sites, using authoring or scripting languages, content creation tools, management tools, and digital media.
- Identify problems uncovered by testing or customer feedback, and correct problems or refer problems to appropriate personnel for correction.
- Maintain understanding of current web technologies or programming practices through continuing education, reading, or participation in professional conferences, workshops, or groups.

Communication & Team Working

- Volunteered as student ambassador for University road shows and open days. Presenting in front of crowd, demonstrating practical works in electronics laboratory workshops, and responding to their questions in an articulated and informed manner.
- Constantly involved in project discussions, evaluating problems, client needs, available technological and

physical resources to provide best possible solutions and precautions in order to complete and deliver the projects efficiently.

- Confer with management or development teams to prioritize needs, resolve conflicts, develop content criteria, or choose solutions to better connect to clients.
- Analyze user needs and software requirements to determine feasibility of design within time and cost constraints. Analyze user needs to determine technical requirements.
- Consult with customers about software system design and maintenance.
- Obtain and evaluate information on factors such as reporting formats required, costs, and security needs to determine hardware configuration.

IT Skills

- Operating Systems - Windows, Mac OSX, Linux(Ubuntu, CentOS, Raspbian), Android, iOS
- Programming Languages - C, C++, C#, Java, Javascript, HTML5, CSS3, Python, SQL, NoSQL, SystemVerilog, VHDL, Matlab, Node.js, OpenGL, WebGL
- Cloud services - MongoDB, Google Cloud Platforms, Google Firebase

EMPLOYMENT HISTORY

December 2017 - Present Programmer, M360 Ideology Sdn Bhd in Old Klang Road, Kuala Lumpur

August 2017 - November 2017 Graduate Trainee, Intel Microelectronics Sdn Bhd in Kulim, Kedah

EDUCATION & QUALIFICATIONS

2013 – 2017 University of Southampton

Master of Engineering in Electronic Engineering with Computer Systems, Second Class Honours (Upper Division)

2014 Recipient of Lloyd's Register Scholar Awards

2013 IELTS - 7.5

2012 - 2013 Riam Institute of Technology, Miri, Sarawak

Cambridge A2 Levels - Chemistry(A*) Biology(A*) Physics(A*) Mathematics(A*)