



Shanglin Guo

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EDUCATION | The Hong Kong Polytechnic University

Major in Electronic & Information Engineering
Minor in Financial Services & Institutions
Sep 2014 – May 2018 (expected)



GPA **3.80**, W GPA **3.91**, three years' **Dean's Honours List Award**

Publicity Secretary of Chinese Mainland Students' Association


Best GPA Award 2016/17

- Top three students in the department with the highest GPA

Best Semester GPA Award 2016/17

- Top three students with the highest Semester GPA

EXPERIENCE | Research Assistant

 Brno University of Technology - Faculty of Electrical Engineering and Communication, Brno, Czech Republic
Jul 2017 – Aug 2017

- Research – Developed and tested the node localization methods for Bluetooth/IEEE 802.15.4 wireless networks
- Considered Anchor-based and Anchor-free based methods
- Implemented on AVR microcontrollers (node) and PC (calculation of positions, data display)

Engineering Intern

NARI NARI Group Corporation, State Grid Corporation of China, Nanjing, China
Jul 2016 – Sep 2016

- Electrical Workshop – Tested and debugged circuit boards

PROJECTS | [ABU Asia-Pacific Robocon 2017](#)

Sep 2016 – Jun 2017, 6-person project

- Multidisciplinary project between electronic and mechanical engineering students in PolyU
- Implemented using Nuvoton MCU and controlled by a smartphone through Bluetooth communication

[PolyU EIE Robotic Challenge](#)

Jul 2016 – Sep 2016, 4-person project

- Ranked 5 out of 17 teams

- Control a robotic car to perform specified tasks
- Using Raspberry Pi 3 and mobile application control over Wi-Fi

MU0 Architecture Processor Simulator

Oct 2016, 1-person project

- Implemented in C++
- Supports MU0 instruction set
- Scored 5 out of 5 under several test programs based on the correctness of the simulation results

TECHNICAL SKILLS

Programming Language

Java, C++, Git, HTML, JavaScript, assembly

System Knowledge

Linux, Android, Chrome OS, Windows

Software

Atmel Studio, Visual Studio, CooCox ColIDE, BlueJ, Eclipse, MATLAB, PADS Logic, PADS Layout, Autodesk Eagle, Adobe Photoshop, Premiere Pro, After Effects

Web Services / Tools

Microsoft Azure, Amazon Web Services, GitHub

CERTIFICATIONS

Guinness World Record of "Most electrical energy generated by pedalling on bicycles in 24 hours"

September 2014 – Present



Microchip Technical Training Certificate

102 ASP (PIC18 Programming)

VOLUNTEER EXPERIENCE & CAUSES

Serving children and families with special needs

Organizer, group coordinator

March 2016 – July 2016 (5 months) | Children

- Design a series of workshops for 30 Hong Kong secondary school students with the aim of strengthening their English
- Designed followed the ARCS model including “attention”, “relevance”, “confidence” and “satisfaction” to ensure that the students were encouraged to participate

REFERENCES

Dr. LEUNG Chi-Kin, Department of Electronic & Information Engineering

The Hong Kong Polytechnic University

enchikin@polyu.edu.hk

Ing. Ondřej Krajsa, Ph.D., Department of Telecommunications
Brno University of Technology - Faculty of Electrical Engineering and Communication

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