



# Shanglin Guo

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## EXPERIENCE | Research Assistant

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

- Research – Development and testing of node localization methods for Bluetooth/IEEE 802.15.4 wireless networks
- Anchor-based and Anchor-free based methods considered
- 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 – Circuit board testing and debugging team

## PROJECTS | ABU Asia-Pacific Robocon 2017

Sep 2016 – Jun 2017, 6-person project

- Multidisciplinary project between electronic and mechanical engineering students in PolyU
- 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

## EDUCATION | The Hong Kong Polytechnic University

Major in Electronic & Information Engineering  
Minor in Financial Services & Institutions



Sep 2014 – May 2018 (expected)

CGPA **3.80**, W GPA **3.91**, two years' Dean's Honours List Award  
Best GPA Award & Best Semester GPA Award 2016/17

**TECHNICAL SKILLS** | **Programming Language** C++, Java, JavaScript, HTML, assembly (basic)  
**System Knowledge** Ubuntu, Android, Chrome OS, Windows  
**Software** Atmel Studio v7.0, Visual Studio 2017, Coocox ColIDE, BlueJ, Eclipse, PADS Logic, PADS Layout, Autodesk Eagle, Adobe Photoshop, Premiere Pro, After Effects

**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

- Service children and families with special needs
- 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](mailto:enchikin@polyu.edu.hk)

**Ing. Ondřej Krajsa, Ph.D.**, Department of Telecommunications  
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