

EDUCATION

THE HONG KONG POLYTECHNIC UNIVERSITY

BENG IN ELECTRONIC AND
INFORMATION ENGINEERING
Feb 2013 - Jun 2017 (Expected)
Hong Kong
Cum. GPA: 3.87 / 4.0

BS IN APPLIED BIOLOGY WITH
BIOTECHNOLOGY
Sep 2012 - Feb 2013

UNIVERSITY OF WATERLOO
ENGINEERING EXCHANGE PROGRAM
Canada

COURSEWORK

THE HONG KONG
POLYTECHNIC UNIVERSITY
Calculus (A+) • Linear Algebra (A) •
Probability (A) • Physics (A+) •
Computer Programming C++ (A) •
Circuit Analysis (A) • Digital Signal
Processing (A) • Materials Science
and Engineering (A)

COURSERA
Algorithms: Design and Analysis
Control of Mobile Robots

MIT OPENCOURSEWARE
Engineering Dynamics
Introduction to Robotics

SKILLS

PROGRAMMING

Over 5000 lines:
C++ • JavaScript • CSS • Python
Over 1000 lines:
Java • PHP • C • Matlab • \LaTeX

Familiar:
Arduino • Hadoop • OpenCV • MySQL
Matlab Simulink • Android

HARDWARE

Circuit design • PCB fabrication

SOFTWARE

AutoCAD • Solidworks

LANGUAGES

Chinese: Mandarin/Cantonese • English
• Japanese

WORK EXPERIENCE

MICROSOFT | SOFTWARE ENGINEERING INTERNSHIP

July 2015 - Dec 2015 | Beijing, China

- Worked in **Cloud and Enterprise division, Platform and Tools group**
- Developed distributed web crawling system with popular open-source crawlers including Nutch and Scrapy
- Integrated crawling system with Hadoop and HBase
- Developed Android Bluetooth application and conducted backend programming with Python, interacted with MongoDB

RAVENTECH | SOFTWARE ENGINEERING INTERNSHIP

Jan 2016 - Mar 2016 | Beijing, China

- Worked with the Web Development team and developed the official website: <http://www.raventech.com>
- Frontend development with ejs, CSS3, javascript, and backend development with Node.js, with Express framework
- Implemented svg web animations in RavenTech Labs

RESEARCH EXPERIENCE

CARNEGIE MELLON UNIVERSITY | SUMMER RESEARCH

Robotics Institute Summer Scholar | Supervisor: Prof. Howie Choset
June 2016 - Aug 2016 | Pittsburgh, PA

- Worked with **Chaohui Gong** and **Prof. Howie Choset** at the Biorobotics Lab
- Built Visual Odometry system for indoor localization
- Implemented the visual SLAM system based on ORB-SLAM, taking input from Real-earth LIDAR system as map initialization
- Built multi-camera simulation environment in Gazebo

THE HONG KONG POLYTECHNIC UNIVERSITY | FINAL YEAR PROJECT

Supervisor: Prof. Chao Lu & Plugtech Precision Systems Ltd.
Sep 2016 - May 2017 (Expected) | Hong Kong

- Best 50 Final Year Project in Hong Kong (20,000 HKD Funding)
- Worked with **Prof. Chao Lu** and **Plugtech Precision Systems Ltd.** in developing a Book Returning Robot (named Bookle) in library environment
- Designed to scan books, localize itself in the library and put the returned book back to its original place
- Responsible for all software implementation including: LIDAR localization, Gazebo simulation, path planning, and object avoidance

AWARDS

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| 2015 | HKSAR Government Scholarship (80,000 HKD / year) | 2013, 2014, 2015 |
| 2015 | Best GPA Award for 2014, 2015 (3 / 80) | |
| 2013 | The Professional Validation Council of Hong Kong Industries Scholarship | |
| 2013 | Hall Residences with Outstanding Contribution (3 of 250) | |
| 2011 | First Award in National Olympiad in Mathematics in Provinces (Top 0.1%) | |

ACTIVITIES

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|------|---|
| 2016 | Hong Kong X Venture Capital Campus Ambassador |
| 2014 | Organizing Committee of Enlighten Project broke Guinness World Record for the most electricity generated in 24 hours by cycling |
| 2014 | Voluntary Services in Yogyakarta, Indonesia |
| 2013 | Publication Secretary of Chinese Mainland Students' Association, HKPUSU |