Curriculum Vitae

Zhiyuan MAO

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Education

Aug, 2013-May, 2017   **The Hong Kong University of Science and Technology, Department of Electronic and Computer Engineering, Undergraduate student.**
- CGA: 3.817
- Minor in Computer Science

Jan, 2016-May, 2016   **The University of Texas at Austin, Department of Electrical and Computer Engineering, reciprocal exchange student**
- Cumulative grade average: 4.0/4.0

Aug, 2017-Present   **Purdue University, Department of Electrical and Computer Engineering, MS student.**

Awards and Achievements

2014-2017	HKUST Dean's List (every semester)
2013-2014	Scholarship Scheme for Continuing Undergraduate Student (HKD 10,000)
2014-2015	Simatelex Charitable Foundation Scholarships (HKD 20,000)
2015-2016	Simatelex Charitable Foundation Scholarships (HKD 20,000)
2017	Graduate with first class honor

Work Experience

May, 2016-Jul, 2016   **Yancon Scientific R&D Center Co., Ltd, <u>Intern in Satellite Positioning Department</u>**
- Designed schematic and drew PCB with Pspice.
- Conducted embedded system programming using Keil uvision.
- Designed the interface with SDRAM; tested and verified the system.

Sep, 2016-Dec, 2016   **HKUST, <u>Student Lab Helper of Course 'Introduction to Elector-Robot Design'</u>**
- Assisted in laboratory teaching
- Checked the laboratory work of the students.

Research Experience

Undergraduate Research Opportunity Program at HKUST

2015 Summer
- Project name: **Mechanical Design, Manufacture and Aerodynamics Analysis of Vertical Take-Off and Landing Airplane,** supervised by Prof. Li Zexiang, co-supervised by Dr. Zhang Fu. **My role in this project:**

- Collecting the information and compare the peer design
- Study the knowledge of airfoil and provide advice.
- Assemble the UAV.
- Analyze the performance of the UAV.

Final Year Project

2016 Fall   • Project name: **Vertical Take-Off and Landing Unmanned Aerial Vehicles,** supervised by Prof. Li Zexiang, co-supervised by Dr. Zhang Fu.

My role in this project:
- Solved the signal transmission between VICON Motion Capture Dystem and Pixhawk
- Set up the testing UAV platform
- Designed the PID Controller

Research Work at Purdue University

2017-Present   • Project name: **Robust Blur Kernel Estimation,** supervised by Prof. Stanley Chan.

My role in this project:
- Design and implement an algorithm to estimate the blur kernel from a single image

Languages and other skills

- Good command of English, Chinese Mandarin and Chinese Cantonese.
- Score of TOEFL iBT: 107
- Programming Language: Proficient in Matlab; Familiar with C/C++, VHDL, Verilog, Python; Experience in Java, Javascript, HTML.
- Experience in IDE software: Eclipse, TI Code Composer, ModelSim, XILINX Vivado, Matlab, SolidWorks, Keil uvision 5, Pspice, IAR Embedded Workbench
- Proficient in MS Office (Word, Excel and Powerpoint)