

## Haoxiang Wang

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### EDUCATION

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**Oregon State University** Corvallis, OR

*Bachelor of Science, department of Electrical and Computer Engineering*

Jan 2016 - Jun 2020

- Undergraduate cumulative GPA: 3.39/4.0. Professional course GPA: 3.62/4.0
- Academic Courses: Computer programming language in C/C++; Basic CMOS analog integrated circuit analysis; Fundamental digital circuit design/analysis in Field Programmable Logic Array; Signal and system analysis; Junior level project (Dynamic Random-Access Memory) design; Electrical transmission and electromagnet analysis; Fundamental science in calculus/linear algebra/numerical analysis/physics/chemistry

### TECHNICAL SKILLS

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- Programming Languages: C++, C, Python, Arduino IDE, MATLAB.
- Tools and platforms: OpenGL, Wireshark, Windows, LTSpice, Quartus FPGA, KiCAD, Visual Studio Community.
- Hardware chips: Inter FPGA MAX 10, ESP12E WIFI module, Teensy family (3.2/3.5/4.0).
- Accumulative ability: Group communication, problem solving, self-motivation and teamwork.

### ACADEMIC PROJECT EXPERIENCE

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**High Altitude Rocket project**

Sept 2019 – Jun 2020

- Cooperated with American Institute of Aeronautics and Astronautics team to build up an avionics system.
- Implemented an on-vehicle system could collect rocket motor pressure data, with on-board SD card storage and transmit SD card data for 15 miles to ground station.
- Built a wireless launch control system, armed and fired the rocket in a range of 2 miles.
- Established and tested the avionics system and launch system to make sure the systems are working functional and reliable.

**Dynamic Random-Access Memory**

Sep 2018 – Mar 2019

- Participated in group and designed top-level DRAM diagram, took responsibility for “Microcontroller processing and LCD display” part, simulated 3 types input data (context, speed and error) and programed microcontroller to convert serial digital data to numbers or characters. Programed LCD screen to display all three data
- Assembled microcontroller and LCD with Field Programmable Logic Array and Printed Circuit Board of Memory. Tested whole system and debugged in each interface to work functionally. The project had the highest score in 4 teams and all team members received online interview of Micron Technology company, the biggest memory manufacture around the world

### WORK EXPERIENCE

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**Beijing Etrol Science and Technology LLC** (manufacture and facilitator of Remote Terminal Units)

Beijing, China

- Led and supervised by Vice Chief Engineer to design a logic circuit which could achieve signal separation, the output signal will be separated for two parts and they are working identically and synchronously, proofed and checked by Vice Chief Engineer and the logic circuit is correct but the accuracy of two signals still need to be improved
- Searched and recorded different types of communication Modbus protocols for Remote Terminal Units (Ex: RS232, RS485), managed 8 pages of protocols information which satisfied multiple industrial conditions

**Xinjiang Tian’an Engineering LLC** (intelligent engineering installation, Branch company of Etrol)

Karamay, China

- Installed infrared detectors and video cameras and connected with Remote Terminal Units, detect creatures approaching and provide graphic data for security system in central station.

### HONORS AND AWARDS

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- Invited by The National Society of Collegiate Scholars Oregon State University Chapter Feb 2017 – present
- Invited by Eta Kappa Nu (HKN) Electrical Engineering Honor Society in Oregon State University Sep 2017 – present
- Awarded by Oregon State University International Student Continuation Scholarship 2016, 2018, 2019, 2020 academic year

### EXTRAACURRICULAR ACTIVITIES

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**Chinese Student and Scholar Association of Oregon State University** (Certificated by Chinese Consulate in San Francisco)

- Worked as Project Coordinator position, provided academic support and daily information for students, communicated with other clubs in university. Took responsibility as food committee chair to preparing and processing food in 2018 China Night, serving for more than 1000 individuals, the China Night awarded “*the best event*” in Oregon State University
- Played as Shooting Guard/Small Forward in 2018 CSSA Chinese Basketball Team. Great at 3 points shooting and zone defense

**Xinjiang New Oriental Education and Technology LLC** (language education company)

- Provided language support for students; 1 vs 1 spoken English practicing for 20 minutes, 3 hours per day; Explained specific reading and writing questions for students; Checked student’s homework and marked errors in it