# Hao Wu

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**SUMMARY:**

Currently, I am a last-year undergraduate student of Huazhong University of Science and Technology，a top-ten university belonging to “985” engineering and “211”engineering. I want to apply the master’s program of embedded electronic system. My major is electronics packaging with a strong focus on IC and semiconductor devices. During my undergraduate study, I learned a lot about the embedded electronic system and micro-nano fabrication, which would be the knowledge base of this program. I have learned the required courses for this program, and I also obtain project experience related the field of electronic system design.

**EDUCATION:**

BS in Electronics Packaging, Huazhong University of Science and Technology. Graduation data: June 2020

GPA: 89.60/100

Ranking: 3/26

Courses include: Algebra, Calculus, Complex Function and Integral Transform, Probability and Mathematics Statistic, Fundamental of Computer Programming (C++), Electrical & Magnetic Circuits, Analogue Electronics, Signal and System, Fundamentals of Solid Electronics (including solid state physics and semiconductor physics), Digital Circuit and Electronic Testing and Experiment Techniques, Foundation of Microelectronics, PCB Design, Principle of Microcomputer.

English level: A score of 100 in TOFEL iBT examination

**EXPERIENCE OF RESEARCH, PROJECT AND INTERNSHIP:**

**Intern Engineer**, Shenzhen STS Microelectronic company, 2019.7

During the practice, I have a chance to get a deeper understanding of the manufacturing process of an electronic product (distance sensor), which has given me a better understanding and understanding of the semiconductor device itself. Those highly automated and intelligent production equipment have also spurred my interest in intelligent electronic system design.

**Lab research**: Memristor function and preparation research, 2018.3-2018.10

Memristor is a kind of emerging circuit components. I worked with postgraduate students to study the preparation process of it and test its electronic performance, which is mainly about its varying resistance. I also learned some knowledge of operating electrical experiment apparatus and analyzing experimental data with Python and MATLAB. Then I realized that I am more interested in the design of electronic circuit and system, so I quitted this research and begin to work on other projects.

**Project 1**: High-speed data acquisition system based on FPGA, 2019.3-

I joined in an Undergraduate Innovation Project and became the leader. It is about the high-speed data acquisition system based on FPGA. We are able to design the analog to digital conversion system by Verilog and the serial communication system. And I have got a better understand of the FPGA design during the project. Now we are trying our best to form a complete system and finish the data visualization by Python.

**Project 2**: Electronic design of grating scale，2019.6-2019.9

This project is about the internal circuit structure and analog-digital conversion of grating scale. Cooperating with my classmates, I designed an analog to digital conversion system that can work in 500 kHz frequency. Then I thought about how to reduce the work delay of the scale. Unfortunately, my classmates quitted from the projects because of the postgraduate-entrance examination, but I still managed to finish his part of the project, the AD conversion.

**OVERSEA STUDY**

Summer school in University of Cambridge, 2018.7.23-2018.8.12

During the summer school, I have experienced the full-English courses about programming and physics, and finished all class assignments. I am confident that I can adapt to the study and life abroad.

**ABILITIES**

Electronic Engineering:

Verilog programming and digital logic design

Basic MCU development (80C51, Arduino)

Basic PCB design using Altium Designer

Operation of electronic testing equipment

Computer Science:

C++ programming

Python programming

Entry level of neural network

Entry level of data structure and database

**AFFILIATIONS & ACTIVITIES**

Volunteer, 2019: Helping foreign students to learn Chinese language and get used to the life in China