

## Education

### ETH Zurich

M.S. IN ELECTRICAL ENGINEERING AND INFORMATION TECHNOLOGY

Nanjing, China

Sep. 2019 - Present

- Courses attended: **Quantum Mechanics I, Quantum Information Processing, VLSI I, Discrete-Time and Statistical Signal Processing**

### Southeast University

B.E. IN ELECTRONIC SCIENCE AND ENGINEERING

Nanjing, China

Sep. 2015 - Jun. 2019

- GPA: **3.95/4.0**, Score: **92.03**, Ranking: **1/126**
- Courses Related: Advanced Mathematics(98), College Physics(96), Signals & Systems(95), Fundamentals of Semiconductor Physics(96), Fundamentals of Circuit(98), Microcomputer Systems & Interfaces(96), Fundamentals of **VLSI** Design(100)

### Technical University of Munich

EXCHANGE STUDENT IN ELECTRICAL AND COMPUTER ENGINEERING

Munich, Germany

Oct. 2018 - Mar. 2019

- Courses Attended: Advanced Topics in IC Design, Memory technologies for data storage, **SoC** Technologies, Seminar Talk in Superconducting Quantum Circuits

## Skills

### Programming

C/C++, Python, Matlab, Verilog HDL, LaTeX

### Tools

Multisim, Altium Designer, Proteus, OpenCV, Git, Android, MySQL

### Languages

Chinese( Native), English(GRE 330+4.0)

## Lab Experience

### Lab of Media Technology

GRADUATION DESIGN, SUPERVISED BY PROF. DR.-ING. ECKEHARD STEINBACH

Munich, Germany

Nov. 2018 - Jun. 2019

- Develop a neural-network-based **teleoperation** control scheme and combine haptic code into the control scheme via **Matlab**.
- Compared it with the state-of-the-art methods, such as wave-based time domain passivity approach(**TDPA**).

### Display Research Center

MEMBER, INSTRUCTED BY PROF. JUN XIA

Nanjing, China

Jul. 2018 - Oct. 2018

- Conducted research about non-invasive imaging through opaque scattering layers via **Matlab**.
- Employed algorithm to optimize **transmission matrix** to improve the performance.

## Projects

### Robocup Rescue

CORE MEMBER

Qingdao, China

Jun. 2016 - Jun. 2018

- Programed the **mechanical arm** in the robot via embedded development board.
- Participated in Robocup China Competition and got the second prize(2/16) in 2018.

### FPGA Game Design

TEAM LEADER

Nanjing, China

Apr. 2017 - Dec.2017

- Designed the game of "Plane War" with **FPGA**, displayed in the monitor.
- Utilized PYNQ in Python to capture human motion .

### IoT Design

CORE MEMBER

Nanjing, China

Dec. 2017 - Mar.2018

- Adopted LAN to realize **wireless communication** among several nodes and applied voice module to realize **interaction..**
- Designed an **Android** App to display the information of sensors, such as temperature.

### Embedded Intelligence Vehicle

TEAM LEADER

Nanjing, China

Nov. 2016 - Oct. 2017

- Programmed with Python to establish the navigation system based on Raspberry Pi to realize **auto-driving**.
- Built the database( MySQL) to store the data gathered from GPS module and other sensors.
- Used **PID** control algorithm to adjust the DC motor, Veyron, to drive the four-wheeled vehicle.

### Robotics Competition

CORE MEMBER

Nanjing, China

Sep. 2016 - Jul. 2017

- Upgraded the **circuits** of Hero Robot with PCB.
- Exploited **OpenCV** to recognize digits and won the **first** Prize in the East Division of China.

## Honors & Awards

2019 Best student in Southeast University

Nanjing, China