Curriculum Vitae

LONG, YAN
Zhejiang University
Electronic and Information Engineering

Education

Zhejiang University (ZJU) Aug.2015-present

- **Junior student of Electronic and Information Engineering**
- **Overall GPA:** 3.92/4.0, 90.60/100 **Second Year GPA:** 4.0/4.0, 93.59/100
- **Toefl:** 30+28+26+29=113 (Aug. 2017)
- **GRE:** Verbal 167 + Quant 170 + AW 4.0 (Feb. 2018)
- **Related Courses:** Principle and Interface Technology of Microprocessors, Signal Analysis and Processing, Circuit and Electronic Technology, Practice of Electrical & Electronic Engineering, Analog and Mixed Signal Integrated Circuit, RFIC Design, Power electronics, Computer Network & Communication, Information theory and coding, Linear Algebra.

Honors and Awards Aug.2015-present

- Provincial Government Scholarship
- Outstanding Student Scholarship, Second Prize
- The second Prize Scholarship
- Five-star Volunteer of ZJU

Research Experience

Sound Filed based Liveness Detection Mar.2018-present

Advisor: Prof. Xu, Wenyuan

- Leveraged sound filed difference between men and speakers to detect play-back attack against automatic speech authentication system.
- Used audio signal processing and machine learning techniques.
- Cooperate with a Ph.D. student and working on a paper.

Non-contact Balance Beam Mar.2017-May.2018

Advisor: Prof. Zhu, Changsheng

- Applied magnetic levitation technology to build a non-contact balance beam.
- Used several sensors to achieve precise positioning.
- Designed an algorithm to achieve an automatic control system.

Smart Home Safety Oct.2017-Dec.2017

Advisor: Prof. Xu, Wenyuan

- Led by doctor and master students, conducted in Ubiquitous System Safety Laboratory.
- Wrote protocols of wireless communication based on TCP.
- Applied infrared and laser communication to improve safety of smart home system.

Competition Experience and Course Projects

Mathematical Contest in Modeling

- Used Cellular Automaton to simulate traffic congestion in Matlab.
- Used LaTex to write a nineteen-page English paper.
- Won Honorable Mention Prize.

Logistics Delivery Vehicle Contest in ZJU

- **C**ame up with overall solutions of tracing and Manipulator control and wrote programs in Arduino.
- Won Second Prize

Semiconductor Refrigeration System

- **As the leader,** led my team to accomplish the project and beat other 90% teams in my class.
- Used FPGA method to build the core of the system.

Technical Skills

- **Software:** CADANCE, MATLAB, WIRESHARK
- **Programming:** Python, C, VHDL, Assembly Language, Bash