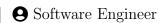
zhuweng





Character | ⊕ Blog | ✓ zhuwenqa@outlook.com | ■ +86 18551713651 | ❷ Software Engineer





EDUCATION EXPERIENCE

Master Candidate at **NUAA** major in Computer Science and Technology. (GPA:) 2021 - present 2017 - 2021 Bachelor's Degree at **NUAA** major in Optoelectronic Information Science and Engineer-(GPA: 3.2/5.0)inq.

Project Experience

A Measuring System of Metal Surface Flatness Based on Electromagnetic Induction Prin**ciple** as Creator and maintainer. Sept. 2018 - Nov. 2018

- We designed a tiny PCB coil as an electromagnetic sensor and power it with a dedicated IC.
- The dedicated chip collect the electromagnetic impedance value between the coil sensor and the surface of the object to be tested, and encode the value into digital data.
- Also note this system is implemented with a 2-axis moving platform powered by G-code thus it is able to scan a surface automatically.

OpenChart as Creator and maintainer.

Jun. 2019 - Dec. 2019

- This is a personal project for charts making from data cheats, the aim of this project is to learn the programing pattern of Qt.
- In this project, I designed a Web-based chart visualization page for charts rendering (ECharts is used to make charts), and a QWebEngine is utilized to load the page and execute the scripts.
- For data transferring between the Qt/C++ end and the HTML/javascript end, I setted a socket server with QWebSocketServer at the Qt/C++ end and built a brige with QWebChannel to establish a connection.

An embedded system for smart trash bin as Creator and maintainer. Dec. 2020 - May 2021

- I designed both the hardware and the software of an embedded system for a smart trash bin.
- For the hardware part, I designed a core board for STM32F103RET6 MCU and a driver board for over 6 sensors and 1 executor as well as the MODBUS interface for data transferring.
- For the software part, I adapted a MODBUS slave protocol stack implementation to the MCU platform as the communication interface for interaction between MCUs and between MCU and PC, and I implemented all the drivers for the sensors and executor based on the STM32 HAL code base.

Internship

Nanjing Xunxing Electronic Technology Co., Ltd.

Jun. 2020 - Aug. 2020

- Participate in the development of embedded Linux software for the physical experiment equipment (a thermodynamic parameter tester)
- I developed the drive and interaction software for the embedded equipment with the Qt framework.

SKILLS

- Modern C++, Python, Qt and embedded systems.
- Master the theoretical basis of computer science, the underlying principles of computers and a good foundation of algorithms and data structures.
- Possess good documentation and engineering practice habits, and are willing to cooperate, communicate and discuss with others.