XIE Wenlong

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Summary

I am committed to lifelong learning and have a strong interest in programming. Through years of study and work experience, I have developed good programming habits and research skills.

Education

Lingnan University **September , 2024 – May , 2025**

- Master of Science in Cross-disciplinary Technologies +.
- Teaching Assistance.

Chongqing University of Technology **September , 2018 – June , 2022**

- Bachelor of Engineering in Mechanical and Electronic Engineering.
- Participated in the robotic arm department and focused on ROS robotic arm drive technology,including controlling sensor information feedback and transmission with the Raspberry Pi platform, and using python to create workspace and function packages.
- Use Python to collect information from the QQ music website and learn the high-quality data analysis project of the Kaggle official website.

Work Experience

Embedded Engineer

Chongqing Software Park **April , 2023 – April , 2024**

- Participated in the company's product development and program design.
- Independently conduct hardware schematic design and PCB layout, and conduct DRC verification.
- Developed and debugged high-quality software using programming by languages C , ensuring the software and hardware work together seamlessly.
- Able to draw simple State Machine Diagram and understand the principles of State Diagram programming.
- Use UART and IIC protocols to continue data collection and interaction with peripherals such as Temperature and humidity collector, screen driver module.
- Able to draw Cjson tree structure diagrams and generate and parse Cjson data types.
- Familiar with the internal storage structure of STM32F103 series chips.

Extra-Curricular Activities

Participant

Kossel Parallel 3D Printer Practice **June 2024 – August 2024**

- Utilized Arduino Mega2560 as the core circuit board and Ramps1.4 as the central controlling component to build a Kossel parallel 3D printer.
- Oversaw the hardware implementation, including sourcing and procuring components assembling the machine, and connecting it to the main controller.
- Optimized, modified, and added to the firmware’s codebase using Arduino development environment and added functionality such as a heated bed function;
- Developed and maintained 3D modelling files utilizing SolidWorks to generate printer files transmittable to the Cura slicing software to achieve high-quality 3D prints.

Skills

- Language Skills: English(Postgraduate English II - 62,CET4 - 441), China(native).
- Professional Skills: C, Python, Linux, Embedded System Communication Protocols(UART, IIC, CAN), PCB Layout.