

Yueqiao Wang

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Objective

Find an internship in Computer Engineering or related field to expand my vision for my career and gain more hands-on skills

Education

Bachelor of Science, Computer Engineering

Rose-Hulman Institute of Technology | Terre Haute, IN

05/2026

GPA: 3.55/4.00

RHIT Dean's List (× 4)

Related Courses: Engineering Practices (Electronics), Intro to Digital System, DC&AC Circuits, Intro to Embedded Systems, Object-Oriented Software Development, Competitive Programming, Data Struct & Algorithm Analysis, Computer Architecture

Skills

Language: Native Chinese, Professional English

Software: Assembly, C++, C, Java, Python, Swift, MATLAB, Simulink, Git, UML, Debugging/Testing, RTOS, Embedded System Development, Hardware Interface Programming

Hardware: Instruction Set Architecture Design, Circuit Analysis, Circuit Stimulation, Quartus Prime, Verilog, ModelSim

Server: IT Service Management, WordPress, NextCloud, Nginx, Web Hosting, MySQL, Composer, Linux

AI Application: GPT API, Graphics/Code Generation/Adaptation, AI Backend Application, Time/Email Management

Other: Project Management, Data Analysis, Version Control, Problem-Solving and Analytical Skills

Projects

EV Battery Pack Software, Battery Workshop Challenge

Fall 2023 – Present

- Prepared Real-Time Clock for team to use, Developed Automatic Cell Testing Program, Configuring OpenECU
- Team member of software sub team, actively engaging in creation and design of cell testing
- Utilized MATLAB, Simulink, Python, Pyvisa and Raspberry PI to control DC Load and Supply for cell testing

WIC Personal Website, Web Development

2019 – Present

- Developed and managed HTTPS-enabled personal website using WordPress for blog and NextCloud for file sharing, serving as a central hub for personal online activities.
- Self-administered rented VPS and domains through Cloudflare, ensuring site security and performance.
- Utilized VPS, Debian, SSH, server management tools, Apache, PHP, MySQL, and Memcached, fostering self-reliance and technical proficiency

LazyPlant, Embedded System

Winter 2023/2024

- Designed and implemented an automated plant care system that improve the environment based on plant profiles and ambient environment
- Led a team of two, serving as the main designer and software contributor
- Developed embedded system automation software in C, utilized TI MSP432 microcontroller in low power mode, relay, Interrupt Routing, ADC, SPI, Neo Pixel, RTC, Debugging and Testing through Oscilloscope

Lime Instruction Set, Computer Architecture

Winter 2023/2024

- Designed and implemented simplified multi-cycle RISC-V like Instruction Set Architecture
- Worked in team of four, focusing on branch type instruction, control unit, and Verilog implementation & Test
- Applied knowledge of assembly language, RTL, and RISC-V to design instruction set architecture, utilized Verilog, and ModelSim

Hardware Guitar Hero Game, FPGA

Spring 2023

- Developed a Guitar Hero Game using an Altera DE2 FPGA board and Quartus Prime
- Led a team of two as the main designer
- Utilized combinational/sequential logic, Datapath-Control, SRAM, and designed a state machine for gameplay

Genetic Algorithm Research, Software Engineering

Winter 2022/2023

- Developed a Java-based genetic evolutionary simulator to illustrate the role of learning in evolution
- Designed and constructed the program's core structure, emphasizing program efficiency and real-time graphical representation of evolution in a collaborative team of two
- Utilized techniques for software design, UML diagram, Java GUI development, randomization, parallel processing, and exception handling while maintaining a strong focus on OO principles

Experiences

DC Circuit Lab Assistant

Spring 2024 – Present

RHIT International Student Association Treasury

Spring 2023 – Present

Object-Oriented Software Development Teaching Assistant

Fall 2023