

Will Roepsch

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EDUCATION

Iowa State University - Ames, Iowa

August 2022 - Present

- Enrolled and pursuing degree - Bachelor of Science, Computer Engineering (expected graduation May, 2026)

EXPERIENCE

Veenstra & Kimm - West Des Moines, Iowa

July 2024 - August 2025

IT Intern

- *Summer 25'*- Supporting integration efforts following a company merger and providing technical support through help desk ticket resolution and troubleshooting
- *Winter 24'-25'*- Assisted with relocating IT infrastructure during an office move, including hardware setup and testing
- *Summer 24'*- Digitized and organized technical documents, contributed to file structure improvements, and wrote scripts to streamline internal workflows

HyVee - Waukee, Iowa

March 2020 - August 2023

Food Clerk

- Collaborated with management and independently promoted food sales
- Consistently deliver timely results and assumed broadened responsibilities

Borst Detasseling - Altoona, IA

June 2018 - August 2019

Detasseler and Checker

- Promoted to Checker after one year of exceptional performance
- Achieved annual bonus pay for dependability and effectiveness

SKILLS

- *Programming Languages*: Java, C, Python, JavaScript, HTML, CSS, SQL, ASIC Assembly
- *Hardware & Low-Level*: VHDL, Verilog, LTspice, ModelSim (QuestaSim), Assembly (MIPS)
- *Web & App Development*: Node.js, Express.js, MongoDB, Firebase, RESTful APIs, Android Studio, Google Maps API, WebSockets, Mapbox, Google Cloud Platform, Geofencing
- *Frameworks & Libraries*: React.js, Tailwind CSS, Bootstrap, Nodemon
- *Tools & Platforms*: Linux, Git, CCS, Autodesk Inventor, Android SDK, Postman
- *Testing*: Espresso, JUnit, Android UI Testing
- *Networking & DevOps*: Cloudflare, Tailscale VPN, GitHub, GitLab, CI/CD, Agile
- *Databases*: MongoDB, MySQL

PROJECTS

- **Hardware and Software Schedule and Design of Pipelined MIPS Processor (2024)**- Created CPU datapath, ALU integration, and Hazard avoidance for 5-Cycle MIPS ISA. (VHDL, MIPS, C)
- **Embedded Systems Mars Rover (2024)**- Used Modified Romba to implement Support for remote control to detect obstacles remotely using IR, sonar, and bump sensors. (C, ARM, Python)
- **Personal Server (2024)**- Designed remote server to be operated peer-to-peer to access and pull data information and relay many home appliances and other IPs deemed fit. (Docker, Portainer, Tailscale, Linux, Cloudflare)
- **Archived Message Reconstruction (2023)**- Using Java ISA to navigate a BST to encode and decode messages and pictures to send data securely. (Java, Unit Testing)

ACTIVITIES / AFFILIATIONS

Iowa State University - Ames, Iowa

Phi Kappa Psi Fraternity

October 2022 - Present

Campus Blood Drive Committee Member: Off-campus

September 2024 - January 2025

Engineering Career Fair Ambassador

September 2022