

Aaron Martin

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EDUCATION

B.S. Computer Engineering - Dec. 2021

Iowa State University, Ames, Iowa

- Coursework: Computer Architecture, Digital Logic Design, Embedded Systems

PROJECTS

Powder Bed Metal 3D Printer - 2021

Senior Design Project

- Lead team in redesign of system architecture in MATLAB
- Design of robust sensor safety system for a class 4 melt laser
- Ongoing project to support CNDE research

Hide and Seek App - 2019

Software Development Practices

- Lead the frontend team to build Android app in Java
- Utilized Android Volley JSON requests & websockets to communicate w/ SpringBoot server

Robot Navigation Software - 2019

Embedded Systems

- C Embedded programming on ARM Microcontroller
- Built a text based CLI to communicate with robot using UART
- Register accesses to interface with PWM servo, IR, & Ultrasonic sensors

Skills

| Java | C/C++ | Web | Hardware | Other |
|---------|---------|----------------|----------|--------|
| Android | OpenMP | HTML/CSS | VHDL | Python |
| Volley | OpenGL | Javascript | Verilog | MATLAB |
| Gradle | GLSL | WebGL | ModelSim | Git |
| JUnit | Arduino | MaterializeCSS | Vivado | Bash |