Aaron Gee

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Project Experience

Fire Detection Drone

Prototyped low-cost semi-autonomous aerial drone with fire detection capabilities using Python.

Developed the drone's fire detecting program by combining image processing techniques, non-neural object detection, and thermal imagery to accurately identify the presence of fires. I also effectively communicated software-oriented ideas and plans to teammates unfamiliar with software topics to more efficiently develop better prototypes that were both accurate and inexpensive.

Ride Organizing Application

Created a web-based ride organizing application. Produced a user-friendly frontend website using React and a stable backend using NodeJS and MongoDB.

Mock HVAC System

Designed a "mock HVAC system" using a Raspberry Pi microcontroller board and various sensors. The system was able to detect temperature, humidity, and motion, then output a display based upon the current detected values.

Education

Computer Science and Engineering, B.S. (Sep 2020 ~ June 2024) | *University of California, Irvine*
GPA   3.347

Relevant Courses

- Programming: Embedded Software, Data Structures, Algorithm Analysis & Design, Systems Engineering, Internet Applications Engineering, Computer Networks, Principles of Operating Systems
- Math: Multivariable Calculus, Linear Algebra, Differential Equations, Boolean Logic, Discrete Mathematics
- Comp. Engineering: Organization of Digital Computers

Skills

Computer Languages:	Python, C++, Java, C, Assembly, JavaScript, HTML, CSS, Verilog
Tools/Frameworks:	Eclipse, VIM, PyCharm, IntelliJ, Notepad++, Vivado, GitHub
Libraries:	React, OpenCV
Database:	MongoDB
Microprocessor Board:	TM4C123 Tiva Launchpad, Raspberry Pi
Soft Skills:	Communication