Vaughn Miller

Computer Engineering
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Summary

Ambitious computer engineering student with more than 2 years of career-relevant programming experience as a team lead for the ISU Cyclone Racing Formula SAE club. Eager to learn and apply new knowledge and ideas, and learn from existing designs to seek ways to improve upon them. Works well in a team environment with a balance of group and independent work. Enjoys the pace and challenge of a competitive environment, preferably with a focus on motorsport or automotive engineering.

Experience

Doordash, Ames, IA - *Delivery Driver*

August 2020 - Present
- Interfaced between businesses and customers to fulfill orders
- Responsible for resolving complaints, managing multiple simultaneous deliveries, and providing exceptional customer-centric service
- Completed over 2000 deliveries with an outstanding rating

Businessolver, Des Moines, IA - *Software Engineering Intern*

Summer 2022
- Worked with a small team of engineers to improve and reorganize legacy Java code from a monolithic codebase, and migrate to an AWS-based data management system.
- Used Java programming experience, knowledge of inheritance and basic algorithms to solve problems with multiple causes
- Agile SCRUM structure for individual projects
- Learned how to concisely self-reflect to communicate progress to and gather feedback from a group of professionals

Pratt & Miller Engineering, New Hudson, MI - *Controls Engineering Co-op*

Spring 2023
- Positioned within the Electronics and Controls department at PME, responsibility was to assist experienced engineers in developing testing processes, test platforms, and network models to test ECU functionality with both HIL and whole-vehicle platforms
- Flexible SCRUM-like model with weekly meetings to organize at a high level, highly self-driven at the individual task level
- Learned how to leverage experience from others to learn how to solve new problems in a deadline-driven environment

Education

Iowa State University, Ames, IA - *BS Computer Engineering*

Currently Attending, Expected Graduation Fall 2024

ADM Schools, Adel, IA - *HS Diploma*

Graduated May 2019

Skills

C/C++

3 years of experience with microcontroller programming and 1 year of work with various serial and wireless communication protocols

Java

2+ years of experience with sorting and computational algorithms

Embedded programming

Experience with AVR, ARM, and FPGA systems

Familiar with:

Python, Excel, VHDL, CAN Bus, Vector Tools, Simulink, Matlab

Electronic lab equipment (Oscilloscope, Multimeter, Function Generator)

Basic circuit design

Basic fabrication and intermediate automotive repair experience