Clayton Maksymiuk

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github: claymaks

Education

2018 - Present

University of Michigan – Ann Arbor,MI
BSE - Computer Science, Minor in Mathematics

Experience

Fisher Dynamics
St. Clair Shores, MI
May 2019 - Present

Software Engineer
- Lead software engineer building autonomous robots from the ground up to move parts in factories.
- Implemented an indoor navigation system ("local GPS") and magnetic guidance system.
- Developed server system for controlling multiple autonomous robots and storing their information.
- Developed graphical and command-line tools for debugging hardware and server-side data.
- Worked with I2C, SPI, and UART communication protocols, linking Arduinos, Raspberry Pis, and HERO development boards.

Fisher Dynamics
St. Clair Shores, MI
Summer 2018

Tool Room Intern
- Designed, built, and troubleshot electrical panels for numerous custom factory machines to be used in automotive plants. Safely debugged assembly line machines on the fly with zero downtime.

NoelCo, Inc
Clinton Twshp, MI
Summer 2015,
2016, & 2017

PLC/HMI Programmer
- Developed front-end human-machine interfaces and backend logic for pneumatic presses and 3-axis plastic injection mold machines.

**Relevant Skills
and Courses**

Programming and Data Structures (EECS 281)
Computer Organization (EECS 370)
Calculus (I & II), Discrete Math, Linear Algebra
7 years of Python Experience
Experience with C, C++, C#, MATLAB, Ladder Logic
Familiarity with Bash and Command Line, Javascript, HTML, and LabVIEW

Python Libraries

Flask, flask-restful, SQLAlchemy, numpy, pandas, threading, csv, serial, re, requests, BeautifulSoup4, matplotlib, NetworkX, Cython, TKinter

Involvement

Hillel Hockey Team (2018 - Present)
Sigma Eta Pi (Entrepreneurship Organization) (2019 - Present)
First Robotics (2014 - 2018)
Theatre (2008 - 2018)