Aaron Neustedter

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Summary

Graduate student at Purdue University pursuing a Master's in Computer Science. Expected graduation Fall 2020, Seeking an internship for Summer 2020

Education

Purdue University   **West Lafayette IN • Fall 2016 - Fall 2020**

- Master's in Computer Science, Fall 2020
- Graduate research centered around developing agricultural IOT devices that stream information about farm machinery usage
- Bachelor's in Computer Science - Software Engineering Concentration, Spring 2019
- Treasurer for the Purdue Waterski Team

Experience

GE Transportation/Wabtec - Customer Application Engineering Intern   **Melbourne FL • Summer 2019**

- Simulated train runs to ensure product viability of specific tracks
- Analyzed and advised in recreation of algorithm that aligns train data recorder information from different trains and starting points
- Led project to artificially inject error in track database to determine effects of incorrect track elevation

CNH Industrial - Systems/Model Based Design Engineering Intern   **New Holland PA • Summer 2018**

- Supported the Case IH Flagship Combine team with the development of the model year 2019 combine
- Modeled and programmed the combine's automatic cleaning fan function
- Verified safety-critical communication protocol between the control handle and processing module
- Created a combine cabin simulator to enable testing of embedded code in a semi-virtual environment

Rockwell Automation - Firmware Test Engineering Intern   **Mequon WI • Summer 2015 - 2017**

- Automated firmware tests designed to replace manual testing of Rockwell's drives
- Reduced test runtime from 4-40 man-hours to 1-20 mins via automated tests
- Built automated test infrastructure to develop and run automated tests

Skills

- Proficient in C/C++, Python, Bash, and Java
- Familiar with ARM/x86, C#, R and Matlab/Simulink
- Formally educated and experienced working in Scrum/SAFe development methodologies
- Repurposed a pair of desktop computers for use as Linux servers for backup, data storage, media streaming, and software development

Volunteering

- Mentored West Lafayette FRC Team 1747 high school students
- Eagle Scout service project created organ donation campaign resulting in over 120 people becoming organ donors
- Hunted invasive lionfish and surveyed queen conch and reef health in Belize
- Taught English and built an educational hydroponic farming system for children in Costa Rica