

# Aaron Neustedter

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## Summary

Graduate student at Purdue University pursuing a Master's in Computer Science. Customer Application Engineering Intern for GE Transportation/Wabtec seeking a permanent position for Spring 2020

## Education

### Purdue University

West Lafayette IN — Fall 2016 - Spring 2020

- Master's in Computer Science - In Progress
- Bachelor's in Computer Science - Software Engineering Concentration, Spring 2019
- Research during undergrad centered around refactoring and implementing software engineering best practices in existing research project
- Serves on the Purdue Waterski Team Executive Board as Treasurer

## 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
- Assisted in creation of 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# 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