

Joseph John Spall IV

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Education

Georgia Institute of Technology, Atlanta, Georgia

August 2016 - Present

- Bachelor of Science in Electrical Engineering, Minor in Robotics, GPA 3.84/4.00
- Expected graduation in May of 2021

Experience

Factory Automation Systems, Atlanta, Georgia

January - May, August 2018 - Present

Electrical Engineering Co-op

- Designed multiple industrial automated control systems for major manufacturing companies
- Evaluated electrical and software assemblies before being shipped to clients
- Retrofitted Rockwell Automation ControlLogix and PowerFlex drives into existing projects
- Worked with Siemens SIMOTIC drives and SIMATIC PLC systems

OneMain Financial, Wilmington, Delaware

May - August 2016, 2017

Risk Analytics Intern

- Compiled a 7,000 line, server-backed JavaFX application for teaching loan evaluation skills to new and experienced employees, being used at over 2,200 locations
- Created a Chrome Extension to cycle through URLs for use on 5 corporate display screens
- Assisted with testing and refining new risk strategies using SAS and Excel

Spallco Car and Truck Rentals, Newark, Delaware

June - August, 2012 to 2015

Operations Assistant

- Detailed vehicles after customer use
- Assisted with vehicle availability with prompt detailing and condition assessment
- Maintained over 150 vehicles in the fleet between 3 offices to interface with inventory management

Leadership

RoboJackets - RoboRacing

September 2016 - Present

Lead of Electrical Team / Electrical Training Lead

- Designed the electrical system for a RC-sized and "Power Wheels"-sized autonomous cars
- Elected Electrical Lead for the 2017 - 2018, 2018 - 2019 seasons
- Won the 2017 Sparkfun Autonomous Vehicle Competition for the "Car Wars" division
- Generated and taught introductory electrical engineering curriculum to over 50 new students
- Designed and assembled a custom fleet of 15 robots for teaching new software members C++

Lighthouse

October 2016 – December 2017

Project Leader / Co-Creator

- Compiled over 3,200,000 crime entries from Atlanta, New York City, Chicago, Philadelphia, and Los Angeles to determine safer walking routes in each city
- Developed a mobile safety app for iOS and Android with a MongoDB backend server
- Awarded the 2016 Georgia Tech Datathon competition winner
- Presented at the Fall 2017 Georgia Tech CREATE-X project fair

Skills

- **Programming:** C++, PLC Ladder Logic, Swift, MATLAB, Java, Python
- **Hardware:** circuit design, circuit production, soldering, embedded systems, Arduino, mbed
- **Software:** EAGLE, EPLAN Electric P8, AutoCAD, GitHub, RSLogix 5000, Xcode

Awards / Interests

- **Awards:** Archmere Computer Science Award, Verizon Innovative App Challenge Best in State, New Castle County Intel Science Fair 2nd Place, 2017 HackGT Meme-a-thon 1st Place
- **Interests:** Competition robotics, casual programming, ultimate frisbee