

Joshua Tarlo

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PROFESSIONAL EXPERIENCE

Software Engineer II, Seegrid, Pittsburgh, PA **Nov 2022 – Present**

- Served as a backend engineer for a new AMR (Autonomous Mobile Robot) fleet management software
- Programmed using Kotlin to improve and extend functionality within a network of interconnected services
- Built RESTful APIs and associated specifications to serve data to the frontend and external systems
- Utilized PostgreSQL for data management, storage, and retrieval for the implementation of new features
- Performed code reviews and offered collaborative feedback to fellow team members
- Facilitated the execution of \$300,000 in customer projects inherited from previous responsibilities

Senior Integration Systems Engineer, Seegrid, Pittsburgh, PA **Jan 2022 – Nov 2022**

- Oversaw multiple customer project timelines to ensure timely and predictable delivery of milestones
- Collaborated with internal stakeholders across multiple disciplines to provide recommendations for new product features and provide technical support for various projects
- Programmed PLCs to use for communication testing of new software releases
- Authored internal training documentation related to Integration Systems Engineer responsibilities
- Continued and expanded on responsibilities of Integration Systems Engineer

Integration Systems Engineer, Seegrid, Pittsburgh, PA **Sept 2020 – Jan 2022**

- Fashioned advanced custom logic flows to control physical movement of Seegrid AMRs within industrial environments
- Partnered with third party PLCs, APIs, and WMSs (Warehouse Management Systems) integrators and controls experts to produce reliable solutions for customers
- Engaged directly with customers throughout solution development, design review, installation, and support
- Standardized common use applications to reduce development and install time by up to 75%
- Developed and presented integration solutions to project stakeholders for review and approval
- Orchestrated and executed multi-party integrations requiring collaboration and aligned execution between customers and multiple vendors
- Led delivery, testing, and support of AMR solutions in both onsite and remote capacities

Application Systems Engineer Co-op, Seegrid, Pittsburgh, PA **Jan 2018 – Aug 2019**

- Developed and tested a custom non-safety rated sensor array for the AMRs to enhance the safety of physical vehicle movements for the next hardware release
- Accelerated a fleet management software release by organizing and conducting tests with software engineers to evaluate functionality and expose bugs within a fixed deadline
- Created a material flow simulation to assess throughput of material based off of historical production data
- Designed, created, and presented live customer-facing demonstrations of the AMRs to company stakeholders

Research and Development Intern, Federal Mogul Powertrain Division, Exton, PA **June 2017 – Aug 2017**

- Conceptualized and designed a standalone assembly for the cutting and manipulation of a proprietary textile as a step into exploring alternative shipping methods reduce packaging volume by a factor of 5
- Used Autodesk Inventor CAD software to design and improve components and assemblies and create corresponding orthographic drawings for fabrication
- Tested, evaluated, and redesigned components and assemblies for functionality and reliability

EDUCATION

University of Pittsburgh, Swanson School of Engineering, Pittsburgh, PA **Aug 2020**
B.S. Mechanical Engineering, Minor in Computer Science

ADDITIONAL ACTIVITIES

Studio 5000 Logix Designer Level 3: Basic Ladder Logic Interpretation, PLC Training by Rockwell Automation
Fundamentals of a TIA Portal System Engineering, PLC Workshop by Siemens via Advanced Controls and Distribution
Eagle Scout, Boy Scouts of America, Troop 23