

Work Experience

Superpedestrian LLC

FEB 2020 – FEB 2022

Senior Product Manager

- Specified, planned, and prioritized work across three independent teams (Research & Development, Embedded Systems, Embedded Test) to integrate new technology and bring to market
- Translated problem statements from operations teams into feature specifications
- Communicated critical technical topics to non-technical teams throughout the organization
- Scoped and scheduled engineering feature development to support high profile technology demos

Key Achievements: Led entire new product introduction process of high accuracy location technology for LEVs (from company partner acquisition through system integration and launch). Directed technology demo, resulting in winning high-value permit to operate in Chicago, IL.

Associate Product Manager

- Introduced documentation and process for feature development
- Managed new team integration to company post-acquisition (acquired R&D department)
- Groomed software task backlog and specified new work specifically in support of cross-team integration
- Continued improvement of test report generation and analytics

Key Achievement: Standardized new feature integration process across hardware and software teams.

Embedded Systems Test Engineer

- Developed and maintained hardware-in-the-loop test fixture and software tests for smart LEV platform
- Built document-based manufacturing test database and supporting ETL processes
- Managed vehicle firmware release process (performance testing and validation, engineering change orders, etc.)
- Designed and specified manufacturing test fixture to support offline firmware updates during final assembly
- Streamlined communications and troubleshoot manufacturing issues with partners in China

Key Achievements: Increased fault injection and stability test coverage by over 10x. Improved throughput of electronics manufacturing line by 35% through cycle time reduction analysis using test database.

Keyence America

JUN 2019 – JUL 2019

Sales Engineering Intern

- Generated 30+ sales leads on a range of highly technical industrial automation products using a proprietary customer relationship management system
- Assisted sales engineers during various in-person sales calls/product demonstrations

Key Achievement: Triggered over \$120,000 in sales for vision-based sensors and laser markers.

Center for High Performance Power Electronics (OSU)

JUN 2018 – AUG 2018

Lead Undergraduate Research Assistant

- Directed undergraduate research team in developing a cyber-physical power grid testbed
- Designed testbed for real-time cyber-attack analysis and defense strategy development

Key Achievement: Resultant research published by IEEE via the North American Power Symposium.

Tech4Imaging LLC

SEP 2017 – NOV 2017

Product Development Engineering Intern

- Designed and operated test equipment for novel 3D imaging/nondestructive testing technology
- Furthered multi-phase mass-flow meter based on 'electrical capacitance volume tomography'
- Modified plumbing system to incorporate stratified flow into a multiphase flow loop for testing

Key Achievement: Determined empirical relationship between capacitance and liquid volume.

Skills

Technical

- Python, Bash, C/C++, MATLAB, Git/Github, Jenkins, CI/CD, scripting, OOP
- Prototyping, multimeter, oscilloscope, soldering, microcontrollers, I²C, SPI, UART, WiFi, MQTT
- Jira, Confluence, SolidWorks, Fusion360, LabVIEW
- GPS/GNSS, IMU, sensor fusion, positioning technology
- Data analysis, exploration (EDA), visualization, ETL, SQL, MongoDB, Pandas, Numpy, Dash, Dask

Non-Technical

- Agile/Scrum, technical team management
- Product/feature definition, business case development
- Complex, cross-functional project management
- Technical documentation, research, public speaking
- Expectation management and work prioritization across various customers with competing interests

Education

The Ohio State University, Columbus, OH

Cumulative GPA: 3.59/4.00

B.S. Electrical Engineering (Controls Domain), with Honors Distinction
Minor: Environment, Economy, Development, and Sustainability