



[linkedin.com/in/seangshin](https://www.linkedin.com/in/seangshin)

Sean Shin

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— Websites —

github.com/seangshin



Technical Skills



JavaScript	Python
Node.js	C / C++
Express.js	Git/SCM
MongoDB	MySQL
React.js	HTML5
ES6	CSS3

Projects



1. Full stack web applications using MERN stack technologies and more, available on GitHub. <https://github.com/seangshin/>
2. Automated Item Sorter & Retriever - a system that automates the storage of electronic components using Python OpenCV library and actuators. U.S. Patent 63/172,153, filed April 8, 2021. Provisional patent.
3. "Solution to the Traffic Congestion Issue on Freeways in Beijing, China" (2016). Corporate Strategy Research Program.

Education

Georgia Institute of Technology
Certificate in Full Stack Web Development
GPA: 4.0

 Atlanta, GA  02/2023

Wayne State University
Bachelor of Science in Electrical and Computer Engineering
GPA: 3.5

 Detroit, MI  05/2017


Summary

Software engineer with experience programming in JavaScript, Python, and C. 6+ years working on embedded software systems for sensors used in driving automation. 1+ years in full stack web development.

Problem solver proficient with agile software development to provide a robust product that exceeds customer expectations. Team-oriented individual capable of fostering collaborative thinking to maximize value proposition.

Work Experience

Technical Project Lead


 06/2019 - Present

ZF Electronics & ADAS Global Headquarters

 Farmington Hills, MI

- Established a track record in meeting customer deliverables and awarded Nissan Global Supplier Innovation Award for outstanding product capabilities such as ProPILOT 2.0.
- Compiled stakeholder requirement metrics to identify gaps in implementation and organized burn down plans to improve traceability for 10,000+ requirements.
- Applied holistic system models to breakdown customer requirements and maintain transparency for all stakeholders while effectively reducing risk, time, and costs.
- Coordinated sprint planning activities to resolve open items using Scrum project management techniques.
- Maintained quarterly project budget and KPI metrics with engineering work products and R&D costs.
- Demonstrated excellent problem solving ability and resourceful in company-wide processes to drive project collaboration with key stakeholders and maintain team communications.

Product Development Engineer

 05/2016 - 06/2019

ZF Electronics & ADAS Global Headquarters

 Farmington Hills, MI

- Implemented software improvements for Auto-High Beam feature to comply with U.S. regulations (FMVSS) detection performance requirements.
- Resolved software failure at production line that caused a fallout rate of 95% and promptly resolved the issue to prevent production shutdown.
- Implemented software functional testing as a product quality strategy to screen defect parts that reduced warranty returns by 20%.
- Designed, implemented, tested software components used for diagnostics and communication layers on a microcontroller.
- Participated in code reviews to ensure application layer software adheres to MISRA C and ISO 26262 standards.
- Performed functional tests on HIL simulators, using analysis software tools such as CANalyzer to ensure compliance with system requirements and specifications.
- Translated supplier (SoC) requirements responsible for assisted-driving technologies.
- Assisted teammates with questions on subject matter expertise related to failure investigations or bug fixes.