J Nguyen

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EDUCATION

M.S. Systems Engineering — Johns Hopkins University, Baltimore, MD 2025 - Present

B.S. Computer Information Technology — Minnesota State University, Mankato, MN 2019 - 2023
Minor in Business Administration, Software Development Certificate 3.5 Cum Laude

RELEVANT EXPERIENCE

Honeywell, Minneapolis, MN
Lead Engineering Technician Feb 2024 - Present
- Developed and executed scripts to assess I/O data across the full production schema, driving performance optimization in the gyroscope manufacturing workflows.
- Restructured a hybrid Supervisory Control and Data Acquisition (SCADA) system with multi-layer PLCs and LabVIEW, improving scalability and maintainability.
- Maintained operation of legacy production equipment, resulting in an estimated cost avoidance of $340,000 in replacement expenditures.

Maverick Software Consulting, Mankato, MN
Software Engineer Intern Mar 2022 - Apr 2023
- Built and refined QA processes for Thomson Reuters (TR) automation suites, enhancing test efficiency and reliability.
- Collaborated with cross-functional teams to optimize TR's web platform, supporting seamless nationwide background checks on individuals and businesses.

PROJECTS

Software

End-of-Day — [C#, ASP.NET Core, MSSQL, ClosedXML]
- Developed an IoT data reporting system to automate production data analysis, contributing to a 30% increase in yield throughput.
- Strengthened visibility in operational performance, supporting continuous improvement across the production flowline.

Day-by-Hour — [C#, ASP.NET Core, MSSQL]
- Implemented a real-time dashboard to monitor shift-based quotas during cleanroom assembly, increasing productivity integrity by 20%.
- Integrated asynchronous syncing between locally stored data and the MES database, ensuring data accuracy and operational continuity.

Hardware

Mirror Coating System Data Recovery
- Diagnosed and restored communication by recovering readable data and preserving system structure and integrity. This re-established the communication pipeline without losing control logic.

I/O Communication Optimization
- Optimized system failure to communicate with the Peripheral Component Interconnect (PCI) computer bus by removing the Computer Automated Measurement and Control (CAMAC) and designing a PC to interface with the control and measurement hardware.