

NATHAN GETTEL

Software Engineering Student | Systems QA & Technical Operations

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PROFESSIONAL SUMMARY

Software Engineering student with a proven background bridging technical manufacturing, industrial operations, and modern full-stack application development. Leverages hands-on experience in high-volume distribution, blueprint interpretation, equipment setup, and rigorous quality control to build reliable, well-tested software architectures. Demonstrated track record in rapid-response engineering sprints—including leading team development of 1st-place solutions for industrial sponsors like Coldspring—backed by strong foundations in C#/.NET, SQL, and systematic unit testing.

EDUCATION

St. Cloud State University

In Progress

Bachelor of Science in Software Engineering | Minors in Cybersecurity & Communications
Relevant Focus: Software Architecture, Data Structures, OOP (C#/.NET principles), Quality Assurance, & Systems Security

Northland Community & Technical College
Associate of Arts in 3D Animation & Modeling

Eastern Gateway Community College
Associate of Applied Business in Business Management

EXTERNSHIP & TECHNICAL PROJECTS

Huskies Invent 48-Hour Innovation Sprint (Sponsored by Coldspring)

Apr 2026

Software & Systems Team Lead (1st Place Award Winner)

- Selected to lead a rapid-response engineering team to design, prototype, and validate an integrated software solution solving an active industrial challenge for Coldspring.
- Conducted system validation, error checking, and unit testing under strict deadlines to ensure software reliability and accuracy.
- Presented live demonstrations and technical documentation directly to Coldspring engineering leadership and executive panels.

Free Geek Twin Cities

Present

Software & Hardware Systems Volunteer / Tech Extern

- Perform hands-on hardware diagnostics, system repairs, component evaluations, and functional testing on incoming IT equipment.
- Troubleshoot system-level software and hardware errors to ensure equipment meets refurbished quality and operational standards.
- Document diagnostic procedures and hardware configurations to streamline repair workflows for team members.

PROFESSIONAL EXPERIENCE

Digi-Key Electronics

Sep 2025 – Present

Operations & Process Specialist

- Execute high-volume, accuracy-critical distribution workflows while enforcing strict quality assurance and operational compliance standards.
- Monitor daily inventory and distribution metrics to identify operational bottlenecks and optimize throughput efficiency.
- Collaborate with cross-functional teams to troubleshoot facility system discrepancies and maintain safe, high-speed operations.

Brin Glass

Jun 2022 – Dec 2022

Machine Operator & Technical Production

- Interpreted complex structural blueprints and technical specifications to configure automated machinery.
- Performed rigorous quality control inspections on component assemblies to verify strict alignment with engineering standards.

TMI Coatings

Feb 2023 – Jul 2023

Technical Sales & Documentation Coordinator

- Audited data-logging systems and records to maintain complete data integrity across high-priority project schedules.

TECHNICAL SKILLS

Languages & Dev:	C#, .NET / ASP.NET fundamentals, SQL, JavaScript, HTML5/CSS, C++, Python
Testing & QA:	Unit Testing principles, System Debugging, QA Inspection, Test-Driven Concepts, Process Mapping
Tools & Methods:	Visual Studio, Git/GitHub, MS Visio, CAD/Modeling Software, Agile Methodology
Professional:	Technical Writing, Root Cause Analysis, Cross-Functional Collaboration, Problem Solving