Hannah Woudenberg

Applications Developer
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SUMMARY

Applications developer with 6+ years across software, industrial automation, and IT. Sole developer at a Michigan manufacturer, building web apps, REST APIs, and ERP integrations in C#, ASP.NET Core, SQL Server, and Cosmos DB, shipped through automated tests, pen testing, and CI/CD (Azure DevOps, GitHub Actions). Owner of Motor City Software LLC, which built and sold 20+ websites and online stores. Previously supported press and robot software at 5 Ford plants.

TECHNICAL SKILLS

Languages: C#, C++, C, SQL, JavaScript/JSX, Python
Frameworks & Platforms: ASP.NET Core, .NET, Node.js, React, Vue, REST APIs, MVC, Azure, Windows Server
Databases: SQL Server, PostgreSQL, Cosmos DB, MySQL
Systems & APIs: Sage X3 ERP, Stripe, Square, FedEx/UPS APIs, barcode systems, MRP/ERP, KPI reporting, ITSM
Tools & DevOps: Git, Azure DevOps, GitHub Actions (CI/CD, automated testing), Linux
Industrial Automation: Siemens TIA Portal, WinCC, Rockwell Automation
Security: Penetration testing (Kali Linux), endpoint security (ESET), IP protection, encryption, network security monitoring
Leadership: Roadmapping, stakeholder and vendor management, migration planning, mentoring

EXPERIENCE

Applications Developer | **R&E Automated Systems**
Shelby Township, MI · January 2026 – Present

- Own the architecture, deployment, and roadmap of the company's in-house app suite, setting priorities with leadership.
- Built the Sage X3 ERP integration layer, Material Planning & Logistics (MP&L) shipping app, and ITSM help desk.
- Built the production tracking and barcode inventory systems, the systems of record for production and inventory.
- Built a KPI platform in place of Power BI to cut licensing costs, giving customers graphing and tracking for their parts.
- Gate every release with automated tests and penetration testing in a CI/CD pipeline, plus beta and user testing.
- Maintain living architecture and API docs alongside the code; manage Git, backups, and snapshots.
- Administer the Windows domain, Azure and Microsoft 365, ESET endpoint security, and a large inherited network fleet.

Controls Technician | **Stamping Support Group (contracted to Ford Motor Company)**
Wayne, MI · July 2022 – January 2026

- Built C#, C, and Visual Basic plant tools with SQL-backed data capture and reporting, via CI/CD and automated tests.
- Replaced and supported stamping-press and robot software across 5 Ford plants using Siemens TIA Portal, WinCC, and Rockwell Automation software, deploying within maintenance windows.
- Designed offline apps for sensitive systems, protecting IP and keeping production running through network outages.
- Built and documented an obfuscation tool protecting proprietary code from insider threats; trained maintainers on it.
- Primary technical contact for Ford stakeholders, turning requirements into deliverables; mentored apprentices.

Owner & Developer | **Motor City Software LLC**
Michigan · 2020 – July 2022

- Built and sold 20+ websites and e-commerce stores to local businesses, from 3-product boutiques to high-ticket exercise equipment (Node.js, React, Vue, JavaScript, PostgreSQL).
- Integrated Stripe/Square payments and FedEx/UPS APIs for labels, delivery quotes, drop-off locations, and packaging.
- Integrated a 200,000+ part auto supplier catalog with year/make/model filters and VIN-indexed search for exact-fit parts.
- Built an owner dashboard for tracking parts sold and shipments, with a custom barcode app.
- Shipped sites through a CI/CD pipeline with automated and penetration testing; documented API integrations.

IT Support Specialist | **Gene Codes Corporation**
Ann Arbor, MI · June 2020 – March 2021

- Ran the full IT function as the only IT hire at a software company serving international clients.
- Led a zero-data-loss migration of maintenance systems; owned SQL admin, encryption, networking, Azure security, pen testing, and documentation.

EDUCATION & CERTIFICATION

B.S. Software Engineering — University of Michigan–Dearborn · Part-time while working full-time · Expected May 2028
Professional Certificate in AI and Machine Learning — University of Michigan (Michigan Engineering) · In progress
Michigan Transfer Agreement (MTA) — Oakland Community College