LOGAN MINAUDO

Software Engineer

Auburn Hills, MI

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Portfolio Website: loganminaudo.com

Professional Summary

Adaptable, results-driven, and personable Software Engineer with nearly three years of experience developing embedded software for electric drive systems at General Motors. Proficient in C, C++, and ABAP, with additional expertise in Python, SQL, JavaScript, React, HTML, and CSS. Strong background in real-time embedded systems, RTOS-based development, hardware-software integration, and automation. Skilled in full software development lifecycle (SDLC), Agile methodologies, and cross-functional collaboration to optimize performance, standardize software components, and enhance system reliability. Experienced in SAP ABAP development, process automation, and cloud integration to improve enterprise efficiency. Passionate about driving innovation through adaptable, scalable, and high-quality software solutions.

Technical Skills

- Programming Languages & Proficiency
    - **C, C++:** Advanced
    - **Python:** Proficient
    - **ABAP:** Intermediate
    - **SQL:** Intermediate
    - **JavaScript, React, HTML, CSS:** Beginner

- Embedded Systems & RTOS
- Automation and Testing
- HIL Bench Testing
- Software Development Life Cycle (SDLC)
- Agile Methodologies
- Cross-Functional Collaboration

Experience

Software Engineer – Electric Drive (April 2024 – Present), **SAP ABAP** (June 2022 – April 2024)

General Motors | Michigan

June 2022 – Present

- **Electric Drive Software Development:** Designed and implemented embedded software for electric drive systems using C/C++, standardizing motor types to improve maintainability and streamline BOM deployments.
- **System Performance Optimization:** Enhanced system performance by reducing throughput in key components and improving execution efficiency. Developed and executed C++ unit tests to ensure software reliability.
- **Real-Time Embedded Systems:** Utilized RTOS for task scheduling, optimizing real-time performance and increasing reliability in mission-critical applications.
- **Full SDLC Contribution:** Contributed to all SDLC stages, from architecture and requirements to implementation and deployment, ensuring adherence to quality standards through reviews and cross-functional collaboration.
- **Agile Development & Collaboration:** Actively participated in Agile teams, utilizing JIRA for project tracking, PI Planning, and Daily Stand-Ups to align development efforts with business objectives.
- **Software Standardization:** Led initiatives to standardize software components, reducing complexity and enhancing deployment efficiency for future projects.
- **SAP ABAP Development:** Designed and optimized SAP ABAP solutions to enhance GM's enterprise systems, improving process functionality and supporting cloud integration for greater system reliability.
- **Process Improvement & Automation:** Led efforts to streamline internal SAP processes and developed automated interfaces, reducing manual tasks and improving operational efficiency.

Projects

- **Personal Website:** Built a personal portfolio website using React, HTML, CSS, JavaScript, Node.js, and npm. Additionally, I deployed this on a personal production server using Proxmox and NGINX as a reverse proxy.
- **Single Sign-On (SSO):** Implemented an authentication system using Keycloak, hosted on a personal server managed with Proxmox.
- **Home Network VPN:** Configured and deployed an OpenVPN server for secure remote access, hosted on a personal server with Proxmox.

Education & Certifications

M.S. Computer Science and Information Systems
University of Michigan - Flint
May 2023
- Concentration in Computer Science

Master of Business Administration
Louisiana State University - Shreveport
June 2025
- Specialization in Project Management

B.S. Computer Science
University of Michigan - Flint
May 2022
- Minor in General Business

Certifications

GM DFSS Green Belt – General Motors
(January 2025)
GM DFSS Black Belt – General Motors
(In Progress)

HTML Essential Training – LinkedIn
(January 2025)
Introduction CSS – LinkedIn
(January 2025)