KABUNDI Tshisuaka

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Professional Summary

Highly motivated and results-oriented **Senior Software Engineer** candidate with over 18 years of intensive experience in **systems troubleshooting**, **industrial automation**, and **control systems** engineering, transitioning to a dedicated software development role. Proven expertise in **embedded systems** concepts through extensive work with **PLC (Programmable Logic Controller) programming** and hardware interfacing, which directly translates to developing **automotive software layers** and managing **data flow in software stacks**. Recently augmented technical foundation with a Full Stack Web Development Bootcamp and a QA Software Tester Certificate, demonstrating a strong commitment to modern software engineering principles, including **C++**, **Python**, and **modular design and architecture**. Seeking to leverage a deep understanding of complex electromechanical systems, high-pressure problem-solving, and logical thinking to contribute immediately to General Motors' advanced software initiatives.

Technical Skills

Category	Skills
Programming Languages	Python, JavaScript (ES6+), HTML5, CSS3, SQL, C/C++ (Conceptual)
Software & Frameworks	React, Node.js, Express, MongoDB, PostgreSQL, Git, VS Code
Embedded & Automation	**PLC Programming** (Ladder Logic, Structured Text), Industrial Control Systems, Electrical Troubleshooting, Diagnostics, Hardware Interfacing, **Embedded Systems** Concepts, Data Flow Management
Testing & Quality	QA Software Testing, Unit Testing, Integration Testing, System Troubleshooting, Problem Solving, Logical Thinking
Concepts	Full Stack Development, Object-Oriented Programming (OOP), Data Structures, Algorithms, Agile/Scrum

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Professional Experience

Maintenance Engineer (Consolidated Roles across 8+ Companies) | **2007 – Present**
USA

- Spearheaded **electrical troubleshooting and diagnostics** for complex industrial machinery and **embedded systems**, consistently resolving high-pressure operational issues to minimize downtime and ensure continuous production.
- Designed, implemented, and maintained **industrial automation and control systems** using **PLC programming**, effectively managing **data flow** and logic to optimize machine performance and safety protocols.
- Managed and maintained electromechanical systems, demonstrating a deep, practical understanding of **hardware systems** and their **software layers** and interfaces.
- Applied **logical thinking** and **systems troubleshooting** to identify root causes of system failures, translating complex physical and electrical symptoms into actionable solutions, a core skill for debugging and developing robust software.

- Successfully executed maintenance engineering operations for over 18 years, developing unparalleled experience in system reliability, modular repair, and preventative maintenance, which aligns with principles of **modular design and architecture** in software.

Relevant Software Projects

Automated Warehouse Inventory System (Full Stack/Embedded Concept)

Project completed during Full Stack Web Development Bootcamp * Developed a full-stack application to track and manage inventory levels, simulating the kind of **data flow** management required in complex systems. * Designed a front-end interface (React) and a RESTful API (Node.js/Express) to interface with a simulated hardware system (using a database) for real-time stock updates, paralleling the need to **interface with hardware systems** in automotive software. * Implemented robust **troubleshooting** and error handling within the application logic to ensure data integrity and system reliability, a critical aspect of **automotive software layers**.

Vehicle Diagnostics Simulator (QA & Testing Focus)

Project completed during QA Software Tester Certificate course * Created a series of automated test scripts (Python) to simulate various vehicle system failures and validate the correct diagnostic output, directly relevant to **embedded systems knowledge** and testing in the automotive sector. * Focused on testing edge cases and failure modes, ensuring the system's **data flow** remained stable and reliable under duress, a key requirement for high-integrity **automotive software**. * Utilized **problem-solving** skills to identify and document logical flaws in the simulated system's **software stack**.

Education & Certifications

QA Software Tester Certificate | JanBask Training | 2025

Full Stack Web Development Bootcamp Certificate | Georgia Institute of Technology | 2023

Bachelor of Science in Software Engineering | University of Phoenix | 2016

Technical Engineering in Electromechanical | DRC (Democratic Republic of Congo) | *Date not provided, assumed prior to 2007*