Adam Jablonski

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SUMMARY

Software Engineer with extensive experience in automotive sub-system integration testing,test automation tool development, and end-to-end software development lifecycles. Skilled in Python and C++ development, log and data analysis, defect triage and management, and technical documentation. Successfully built and maintained critical test infrastructure supporting thousands of automated test executions across both production vehicles and hardware-in-the-loop (HIL) test benches.

EXPERIENCE

Ford Motor Company | Dearborn, MI **2021–2025**

Software Development Engineer in Test **Nov 2023–May 2025**

- Contributed core functionality, including automated test configuration, vehicle interaction (ignition control, DTC logging, etc.), on-vehicle diagnostic logging, and remote log streaming, to In-Vehicle Automation (IVA), an automated OTA test orchestrator and executor, achieving 135,000 fully automated in-vehicle OTA test runs and counting.
- Led peer code reviews, mentored junior engineers and analysts, and authored technical documentation in Confluence covering the IVA system architecture and best practices.

Software Test Engineer (Contract) **July 2021–Nov 2023**

- Designed, implemented, and maintained Vehicle Logging Client (VLC), a Python CLI tool that reduced manual OTA test execution time by 5-10 minutes per run by automating logging instrumentation setup and teardown, monitoring log health, and organizing test data for triage.
- Created comprehensive Confluence documentation for VLC and provided ongoing user onboarding and troubleshooting support, increasing team-wide tool adoption to over 95%.
- Performed manual OTA regression testing on hardware test benches and development and production vehicles, analyzing system logs to root-cause update failures, documenting defect details and steps to reproduce in Jira, and verifying fixes.

ZF Group | Fowlerville, MI **2017–2019**

Quality Engineering Intern **May 2017–Oct 2019**

- Fabricated, installed, and documented automatic test equipment (ATE) components—including test fixtures and wire harnesses—for end-of-line test stands, ensuring final verification of ABS electronic and hydraulic control unit functionality before shipping to customers.
- Co-developed software upgrades to EOL test-stand LabWindows/CVI code to add compatability with CAN-FD for incoming General Motors Global B E/E architecture.
- Enhanced a Java-based cross-platform quality reporting and data querying application, utilizing the JavaFX platform for rich graphical user interfaces.

EDUCATION

Michigan State University | East Lansing, MI **2019–2021**

Bachelor of Science, Computer Engineering - 3.99 GPA

SKILLS

Technologies Python, C++, GitHub, Jira, TestRail, JFrog, Jenkins, Slash, Pytest, CAN/CAN-FD, UML

Practices Scaled Agile for Enterprise (SAFE), Software Development Life Cycle (SDLC)