

Adam Jablonski

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SUMMARY

Software Engineer with 4+ years of experience in automotive systems, including integration and end-to-end software testing, test automation tool development, and vehicle controls/diagnostics. Developed C++ and Python-based test infrastructure supporting thousands of automated test executions across HIL benches and vehicles.

SKILLS

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

Practices SDLC, Scaled Agile (SAFe), Requirements Analysis, CI/CD, Test Automation, Diagnostic Log Analysis

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 over-the-air update (OTA) test orchestrator and executor, achieving 135,000 fully automated in-vehicle OTA update test runs and counting.
- Collaborated with cross-functional teams to identify opportunities for automation and translate OTA update end-to-end test requirements into functional requirements and user stories for IVA testing framework.
- Authored technical documentation in Confluence covering the IVA system architecture, hardware and software setup process, opportunities for extension and customization, and best usage practices.
- Onboarded new hires to development and testing tools, frameworks, and practices; held training sessions for newly developed automation tools; mentored junior test engineers and analysts; and wrote on-boarding guides.

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; held global training sessions to pitch and introduce VLC to other teams within Ford product development; provided ongoing user onboarding and troubleshooting support, increasing team-wide tool adoption to over 95%.
- Performed manual OTA update regression testing on both hardware test benches (integration testing) and development and production vehicles (end-to-end testing), 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

Engineering Intern (Contract)

May 2017–Oct 2019

- Implemented CAN-FD-related software upgrades for ABS electronic control unit end-of-line test stand to add compatibility 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 and enabling assembly staff to more easily submit quality reports and query traceability data from the plant's Oracle SQL database.
- 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.

EDUCATION

Michigan State University | East Lansing, MI

2019–2021

Bachelor of Science, Computer Engineering - 3.99 GPA