

Kevin Douglas Delong

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Professional Summary

Results-oriented Software Engineer with 10+ years in automotive infotainment systems, specializing in backend automation, frontend UI development, and full-stack integration for web, mobile, and embedded applications. Proven track record in C++, Python, and AutoSAR architecture, collaborating on CI/CD pipelines to deliver high-quality, secure software. Excel at debugging complex SOC/IOC issues, fuzz testing protocols (CAN/Ethernet), and leading cross-functional teams to exceed milestones—reducing defects by 25% through optimized test automation. Eager to drive innovative solutions in scalable software environments.

Technical Skills

Languages & Frameworks

- C, C++, Python, Visual Basic, Android (mobile app development)
- AutoSAR RTE architecture for real-time embedded systems

Tools & Protocols

- CANoe 9, Vector hardware/tools for simulation and automation
- CAN/CAN-FD/Ethernet bus; TCP/UDP; Wireshark, ZenMap for network analysis
- Fuzz testing (BT, Wi-Fi, Ethernet, CAN-bus); ARP spoofing

Domains & Methodologies

- ADAS, telematics (OTA updates), camera CVPM systems
- CI/CD, automation scripting, Agile/Scrum; ISTQB-certified QA practices
- Backend: SOC/IOC defect resolution; Frontend: CANoe UI for feature simulation

Professional Experience

Software Testing Lead (Software Engineer Focus) *Harman International Industries Inc., Novi, MI January 2018 – Present*

- Collaborated with development teams to resolve defects in AutoSAR implementations on SOC/IOC, accelerating deployment cycles by 15% through automated scripting in Python and C++.
- Led test case optimization and configuration management, ensuring 100% milestone compliance and reducing post-release bugs by 25% via CI/CD integration.

- Coordinated multi-team efforts to enhance automation tools, improving testing efficiency for infotainment systems (radio/UI interfaces) across 50+ vehicle ECUs.
- Trained 20+ new hires on hardware/software schematics, Vector tools, and AutoSAR real-time environments, fostering a culture of best-in-class engineering practices.
- Conducted fuzz testing and security audits (DoS, firewall permissions), identifying vulnerabilities in Ethernet/CAN-bus protocols to bolster system security.

Software Test Engineer *Harman International Industries Inc., Novi, MI January 2013 – January 2018*

- Developed and debugged automation test scripts using Vector tools and CANoe 9, simulating vehicle ECUs and validating customer requirements—cutting manual testing time by 40%.
- Designed user interfaces in CANoe for CAN-bus key feature simulation, supporting frontend-backend integration for mobile-connected infotainment apps.
- Performed on-site customer ride-and-drives, gathering/analyzing data to refine software models and ensure seamless OTA telematics functionality.
- Wrote optimized test cases for manual and automated validation, contributing to zero-defect deliveries in ADAS and camera CVPM systems.

Computer Technician

Barrister Global Services Network Inc., Novi, MI January 2012 – January 2013

- Configured hardware, networks, and software for 100+ employee workstations, troubleshooting peripherals (printers/scanners) and integrating backend systems for optimal performance.
- Partnered with vendors to source components and resolve advanced issues, minimizing downtime by 30% through proactive scripting and diagnostics.

Maintenance Assistant

Alexander & Hornung, St. Clair Shores, MI February 2006 – December 2011

- Executed preventive maintenance on industrial equipment using tools like MIG/TIG welders, power saws, and soldering irons—applying hands-on problem-solving transferable to hardware-software integration.
- Collaborated on major repair projects with cross-functional teams, ensuring compliance with safety protocols and operational efficiency.

Education

Master of Science in Computer Engineering Oakland University, Rochester Hills, MI | May 2018

Bachelor of Science in Computer Engineering Lawrence Technological University, Southfield, MI | May 2014

Certifications

- ISTQB Foundation Level (International Software Testing Qualifications Board) | 2020