# Kevin Douglas Delong

#### Fenton, MI 48430 | (810) 287-7409 | [delong.kevin@gmail.com](mailto:delong.kevin@gmail.com) | [[GitHub](https://github.com/delongkevin/2025-Portfolio-SoftwareEngineer.git)][[LinkedIn](http://www.linkedin.com/in/kevin-delong-50726135b)]

**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, John the Ripper for security

**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