

# Kevin Douglas Delong

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## Professional Summary

Results-driven Software Engineer with over 10 years of experience in the full software development lifecycle, from concept and design to testing and deployment. Proven ability to develop robust automation frameworks, build full-stack applications, and engineer solutions for complex embedded systems in the automotive industry. Combines deep expertise in C++, Python, and Java with a strong background in software quality to deliver exceptionally reliable and efficient code.

## Technical Skills

- **Languages:** C++, Python, Java, C, JavaScript, HTML/CSS, SQL
- **Frameworks & Libraries:** React Native, Node.js, Angular, Django, Flutter, Laravel
- **Automotive & Embedded:** CAN/CAN-FD, Ethernet Bus, Vector Tools (CANoe), AUTOSAR, ADAS, Over-The-Air (OTA) Updates
- **Tools & Platforms:** Git, Docker, JIRA, ALM Tools, Jenkins, Wireshark, ZenMap
- **Methodologies:** Agile/Scrum, CI/CD, Test-Driven Development (TDD), Automated Testing

## Professional Experience

**Software Test Lead** | Magna Electronics | Auburn Hills, MI | *Dec 2023 – Present*

- Engineered and maintained Python-based autonomous testing solutions for ADAS camera systems, increasing test coverage by 40% and reducing manual testing efforts.
- Led a team in diagnosing and resolving critical software defects, collaborating with development teams to implement robust fixes and improve overall software stability.
- Act as the primary technical liaison for customer accounts, ensuring successful software deliverables and managing relationships to align with project milestones.

**Software Test Engineer II** | Trijicon, Inc. | Wixom, MI | *2022 – 2023*

- Designed and developed an automated regression testing framework for thermal imaging scopes, reducing the testing cycle for milestone releases by 60%.
- Authored and reviewed comprehensive test plans and cases, leading to a 25% reduction in post-release defects.
- Collaborated directly with the development team to troubleshoot and resolve firmware bugs, providing detailed analysis and documentation to accelerate the fix process.

**Software Developer (Freelance)** | Upwork Inc. | Remote | *2021 – 2023*

- Developed and deployed a full-stack e-commerce web application for a client using React, Node.js, and a SQL database, resulting in a 30% increase in user engagement.
- Engineered a cross-platform mobile application for iOS and Android using React Native and Flutter, integrating Bluetooth SDK for IoT device communication.

- Built custom features and plugins for various client websites using PHP (Laravel, WordPress) and Python (Django).

**Software Testing Lead** | Harman International Industries Inc. | Novi, MI | *Jan 2018 – Nov 2021*

- Automated Over-the-Air (OTA) update validation processes for automotive infotainment systems, ensuring 99.9% reliability for remote deployments.
- Led defect resolution for AUTOSAR implementations on System-on-Chip (SoC) and I/O controllers, improving system performance and reliability.
- Mentored and trained new engineers on the infotainment software architecture, Vector tools, and automation best practices.

**Senior Software Test Engineer** | Harman International Industries Inc. | Novi, MI | *Jan 2013 – Jan 2018*

- Developed and debugged automation scripts using Python and Vector tools to simulate vehicle ECU behavior, increasing the accuracy of pre-deployment testing.
- Created custom user interfaces in CANoe to simulate CAN bus messaging for feature validation, allowing for early-stage bug detection.
- Wrote and optimized over 500 test cases for manual and automated execution, establishing a comprehensive regression suite that became the standard for the department.

## **Education**

**Bachelor of Science in Computer Engineering** (GPA: 3.8) Lawrence Technological University – Southfield, MI

## **Certifications**

**ISTQB Certified Tester, Foundation Level (CTFL) - 2024**