

TAYLOR FOSTER

Testing Engineer

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📍 West Gardner, Maldives



SUMMARY

Experienced Testing Engineer with a strong background in embedded security testing. Proven ability to lead and perform advanced security testing engagements for connected car systems. Skilled in analyzing security requirements, generating test specifications, and identifying implementation flaws. Proficient in C, C++, Python, and reverse engineering tools. Bachelor's degree in Electrical Engineering. Passionate about contributing to Toyota's cybersecurity posture and staying up to date on new attack vectors and vulnerabilities. Excellent communication skills and ability to work in individual and group settings. Committed to ensuring secure automotive technology.

EXPERIENCE

Embedded Security Testing Engineer

Toyota

📅 2022 - Ongoing 📍 Plano, TX

Led and performed advanced security testing engagements for current and forward-model systems in Toyota's Connected Car ecosystem. Analyzed security requirements, generated test specifications, and executed security tests to ensure implementation sufficiency. Conducted pen testing and reverse engineering against embedded hardware and firmware, resulting in the identification of implementation flaws. Communicated complex technical findings and provided remediation guidance to technical and non-technical staff.

- Analyzed security requirements specifications and generated corresponding test specifications for various products during the design phase.
- Led and performed execution of security test specifications during the verification phase, ensuring the implementation of specified security requirements.
- Conducted pen testing and reverse engineering against embedded hardware and firmware, identifying implementation flaws and providing remediation guidance.
- Communicated complex technical findings and recommendations effectively to technical and non-technical staff.
- Contributed to research on new attack vectors, vulnerabilities, and exploitation techniques in the automotive industry.
- Participated in technology security design reviews, efficiently communicating potential issues and risks.

MY LIFE PHILOSOPHY

Security is not a product, but a process.

STRENGTHS



Analytical Thinking

Demonstrated strong analytical thinking skills through the successful identification and mitigation of complex security vulnerabilities in embedded systems.



Effective Communication

Excellent verbal and written communication skills, effectively conveying complex technical findings and remediation guidance to technical and non-technical stakeholders.



Leadership

Proven leadership abilities through the successful coordination and execution of security testing engagements and the mentoring of junior team members.