# Sean Letzer

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## Objective

Looking to bring my expertise in embedded systems alongside a fluid mix of soft skills and technical skills to a team that values collaboration and innovation.

## Experience

**Canoga Perkins**, Software Engineering Manager — Chatsworth, CA, USA — Apr 2023 – May 2025
- Led a team of 4 Embedded Software Engineers (1:1 meetings, code reviews, mentoring) in a team called **Diagnostics**.
- Led SCRUM ceremonies (Daily Standups, Sprint Planning, Sprint Retrospectives).
- Created user stories, epics, and tasks that aligned with the product roadmap.
- Worked with Product Management to define the product roadmap and prioritize features.
- Created career development plans for team members.
- Created software architecture documents for new features.

**Google**, Customer and Partner Engineer — Playa Vista, CA, USA — Oct 2022 – Mar 2023
- Understand product area partner/Original Equipment Manufacturer (OEM) use-cases, distilling them into product requirements and implementation.
- Support enablement of third-party labs for automated and manual device certifications.
- Define experiences that realize requirements and build the necessary pieces working with key platforms and partner devices.
- Identify opportunities to improve scaled solutions to more device categories.
- Drive technical execution of strategic partner relationships within Google and launch third-party products.
- Support partners in product feature definition, implementation, pre-test, and production.
- Support partners to develop and customize features.
- Work with product area Engineering sub-teams to get features built and implemented.
- Support SoC partners, bring up, and development.
- Assist System Integrators, Original Design Manufacturers (ODMs), and Distributors in scaling products.

**Canoga Perkins**, Software Engineer — Chatsworth, CA, USA — Apr 2020 – Sept 2022
- Developed/maintained an application that ran on a Time-Sensitive Network Switch written in C.
- Developed a Linux device driver for a custom FPGA image on the Time-Sensitive Network Switch.
- Created/customized a Linux distribution via Yocto that was the main embedded-OS that ran on the Time-Sensitive Network Switch.
- Created DevOps pipelines for said projects using Gitlab's CI/CD framework written in YAML.

**Frostkeep Studios/Indi-Ev**, Software Engineer — Irvine, CA, USA — Oct 2019 – Apr 2020
- Embedded Android development for an electric vehicle Infotainment System on an NXP IMX8 SoM.

- Developed android navigation app using mapbox android SDK.
- Integrated Alexa-Auto SDK into navigation application.

**Panasonic Avionics Inc**, MTS 2 Software Engineer                                 Lake Forest, CA, USA
                                                                                    Mar 2016 – Oct 2019
- Developed/Maintained a File Delivery application written in C/C++ that was responsible for pushing a large file-set over a Multicast UDP stream to hundreds of seat-back monitors of the InFlight Entertainment System.
- It advertised these files to upper layers via a FUSE FS. Android SELINUX compliant.
- Developed/Maintained a loading application in C++/QT for use by Field Engineers to load initial software set to the plane in a factory-fresh state.
- Created a toolchain for a legacy target.
- Dockerized build environments for said apps and integrated them into Gitlab CI pipeline.
- Created Expect scripts to automate user-input to hundreds of seatback monitors for testing.

**Kiersted System LP**, Software Engineer                                           Irvine, CA, USA
                                                                                    Nov 2015 – Mar 2016
- Developed dynamic web applications using the Java EE + Spring frameworks.
- Incorporated data visualization techniques into web apps.

**Magzor Robotics Inc**, Platform Architect Intern                                  June 2015 – Nov 2015
- Design and development of an Embedded Library that allows Magzor Solutions to integrate smoothly into popular electronics development platforms (Arduino, Texas Instrument's MSP430/432, Intel Edison, etc).
- Designed and developed a Code Generator to give Magzor customers custom programs to use with their online hardware purchases.

## Skills

**Programming Languages (Proficient):** C/C++, Java, Python, Bash

**Programming Languages (Familiar):** Expect Script/TCL, Python, QML/QT, YAML

**Databases:** MySQL, Sqlite3, Redis

**Platforms & OS:** Linux, Android, Docker, Yocto

**Debugging & Network Analysis:** GDB, Valgrind, Tcpdump, Wireshark

**Web Technologies:** Java EE, Apache Tomcat, Spring, JSP, JDBC, RESTful

**Source Control:** Git, SVN, Gitlab

**Static Analysis & Code Review:** Codebear Collaborator, Klockwork, Coverity

**Security:** SELINUX, TLS, Linux PAM Module

**Toolchains:** GCC, Bionic NDK, Crosstool-ng, Buildroot, Yocto

## Education

**B.S.     University Of California, Irvine**, Computer Science                      June 2016