

# Sean Letzer

📍 Los Angeles, CA, USA    ✉ seanletzer@gmail.com    ☎ (818) 224-9948    🌐 sletzer    🐙 sletzer

## Objective

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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

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### Software Engineering Manager

Canoga Perkins

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.

### Customer and Partner Engineer

Google

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.

### Software Engineer

Canoga Perkins

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.

### Software Engineer

Frostkeep Studios/Indi-Ev

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.

### MTS 2 Software Engineer

Panasonic Avionics Inc

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.

### Software Engineer

*Irvine, CA, USA*

*Kiersted System LP*

*Nov 2015 – Mar 2016*

- Developed dynamic web applications using the Java EE + Spring frameworks.
- Incorporated data visualization techniques into web apps.

### Platform Architect Intern

*June 2015 – Nov 2015*

*Magzor Robotics Inc*

- 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

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**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

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**University Of California, Irvine**

*June 2016*

*B.S. in Computer Science*