

Kevin Kellar

COMPUTER SCIENCE UNDERGRADUATE (GRADUATING SPRING 2021)

4438 NW Boxwood Drive, Corvallis OR, 97330

📧 kkevlar | 📞 541-224-6877 | ✉ kellar@calpoly.edu | 🌐 kellar-kevin

Objective

Seeking embedded software engineering roles targeting performance and safety critical applications

Education

California Polytechnic University

B.S. IN COMPUTER SCIENCE

San Luis Obispo, CA

Fall 2017 - Present

- Major GPA: **3.9** — Cal Poly Cumulative GPA: **3.9** — Expected graduation **Spring 2021**
- Exceeded in **Algorithms, Operating Systems, Computer Architecture, and Microcontrollers**

Work Experience

Zipline International

EMBEDDED SOFTWARE ENGINEERING INTERN

South San Francisco, CA

March-September 2020

Apple: Special Projects Group

SOFTWARE ENGINEERING INTERN

Santa Clara, CA

Summer 2019

- Thirteen weeks of **systems programming** experience targeting real time **embedded** operating system
- Extensive work with test driven development, using **cmocka for unit test mocking**
- Worked with **bazel** build system to target **both Linux and MacOS**, as well as the primary RTOS

Dynamic Robotics Laboratory (II)

RESEARCH EXPERIENCE FOR UNDERGRADUATES (REU)

Oregon State University

Summer 2018

- Developed **Cassie Trajectory Editor**, a tool to manipulate walking gaits for the bipedal robot Cassie
- Wrote C in Ubuntu Linux to link with C++ libraries such as **MuJoCo Physics Simulator** and **GLFW**
- Self-taught **Matplotlib** in Python for visualizing subtle differences robot trajectories and solver outputs

Dynamic Robotics Laboratory (I)

HIGH SCHOOL RESEARCH ASSISTANT

Oregon State University

Summer 2017

- Completed projects in Arduino, Teensy, Unix, and VR by **independently learning C**
- Assisted in robotics research in the field of path planning, decision making, and teleop controls
- Documented the finished software tools and wrote setup instructions for use within the organization

Programming Skills

POSIX C Developed over a dozen POSIX system programming projects using **dynamic memory management**

MCU Arduino/TI-Launchpad projects including a simulated xbox controller and **autonomous robot drive code**

Git Developed **dozens of public GitHub projects**, including work with rebase, cherry-picks, and code reviews

Build Experience with the **Bazel build system** and writing complex **(GNU) Makefiles** for projects with many targets

Testing Developed systems level software using test-driven development and the **cmocka testing library**

Android Published **two Android applications** to the **Google Play Store**, using Android Studio, **Java**, and XML

Python Wrote a **Self Learning** Tic-Tic-Toe program in Python, which learns as the user plays against it

Unix Comfortable scripting with programs such as sed, grep, as well as **testing** systems-level software

SSH Built a **home file server**: experience with ssh server setup, ssh tunneling, and RSA key setup

Honors & Awards

COMPETITIONS

2019 **2nd Prize**: Roborodentia: Cal Poly's Autonomous Robotics Competition

Cal Poly, SLO

2018 **1st Prize**: Roborodentia: Cal Poly's Autonomous Robotics Competition

Cal Poly, SLO

2018 **2nd Prize**: Winter SLOHacks: Developed a networked Android application

Cal Poly, SLO