

Kevin Kellar

COMPUTER SCIENCE UNDERGRADUATE (GRADUATING SPRING 2021)

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Objective

Six month Co-op in Computer Science or Software Engineering. starting Spring 2019

Education

California Polytechnic University

San Luis Obispo, CA

B.S. IN COMPUTER SCIENCE

Fall 2017 - Present

- **3.91 GPA** (CPSLO, Cumulative)
- Earned 'A' in **Data Structures**, **OO Java**, and Intro To Computer Organization (**Assembly**)
- 'A' in **Systems Programming** (C programming in Unix environment), Spring 2018
- Completion of Calculus Series (I - IV), Physics Series (I - III), and Technical Writing for Engineers

Work Experience

Dynamic Robotics Laboratory (II)

Oregon State University

RESEARCH EXPERIENCE FOR UNDERGRADUATES

Summer 2018

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Dynamic Robotics Laboratory (I)

Oregon State University

HIGH SCHOOL RESEARCH ASSISTANT

Summer 2017

- Completed projects in Arduino, Teensy, Unix, and VR by **independently learning C/C++**
- Assisted in robotics research in the field of path planning, decision making, and teleop controls
- Self-taught setup and maintenance of industry-grade force plates
- Extensive practice in documenting software and writing setup instructions

Electical Engineering and Computer Science Department

Oregon State University

APPRENTICESHIP IN SCIENCE AND ENGINEERING

Summer 2015

- 300 hours of software development and computer skills experience
- Co-Contributor of **ICST research paper** "TSTL: the Template Scripting Testing Language"
- Implemented a testing framework in Java, allowing it to be used in Android development
- Self-taught basic shell scripting and using Linux-based systems as a development platform

Programming Skills

- Git** Developed **dozens of GitHub projects**, resolved complex merge conflicts, and used issues / pull requests
- Android** Published **two Android applications** to the **Google Play Store**, and learned to use XML for interface design
- Networking** Developed two networked Java applications: a simple chat room and a **multi-user Android app**
- Python** Wrote a **Self Learning** Tic-Tic-Toe program in Python, which learns as the user plays against it
- Data Structures** Comfortable writing and using **hashtables and priority queues** in Java, C, and Python
- Unix** Comfortable scripting with Unix programs such as sed, grep, and conditionals for simple tasks
- GCC / Make** Developed a dozen Unix C projects, many using memory management, raw pointers, and **complex Makefiles**
- Arduino** Written Arduino/Teensy sketches including a simulated xbox controller and **autonomous robot drive code**
- SSH** Built a **home file server**: experience with ssh server setup, ssh tunneling, and RSA key setup

Honors & Awards

EXTRACURRICULAR

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| 2018 | 1st Place: Roborodentia: Cal Poly's Autonomous Robotics Competition | Cal Poly, SLO |
| 2018 | 2nd Place: Winter SLOHacks: Developed a networked Android application | Cal Poly, SLO |
| 2018 | Participation: Three Capture-The-Flag events with White Hat | Cal Poly, SLO |

ACADEMIC

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|------|---|---------------|
| 2017 | Green & Gold Scholarship: Contribution to Univeristy's academic life | Cal Poly, SLO |
| 2013 | Best in Class: AP Computer Science, Singapore American School | SAS, SG |