

Garrett Kunkler

✉ gnkunkler@gmail.com [rettdog.github.io](https://github.com/rettdog) [in gkunkler](https://www.linkedin.com/in/gkunkler) [rettdog](https://github.com/rettdog)

Education

- California Polytechnic State University**, B.S. Mechanical Engineering San Luis Obispo, CA
Sep 2021 – (June 2026)
- **GPA:** 4.0/4.0
 - **Minors:** Physics, Mathematics
 - **Coursework:** Dynamics, Mechanics, Linear Analysis, Multivariable Calculus, Thermodynamics, Fluid Mechanics, Modern Physics, Circuits
- KTH Royal Institute of Technology**, International Exchange Stockholm, Sweden
Aug 2024 – (June 2025)
- **Grade:** A
 - **Coursework (Master's Level):** Acoustics, Medical Engineering, Electrodynamics, Game Theory, Computational Fluid Dynamics

Academic Experience

- KTH Medical Imaging**, Undergraduate Physics Research Stockholm, Sweden
Aug 2024 - (June 2025)
- Simulating particle interactions in CT scanning sensors
 - Writing scripts to plot and analyze motion of charges
 - Extending modular open-source framework
- VERITAS**, Undergraduate Physics Research San Luis Obispo, CA
Sept 2023 - June 2024
- Analyzed gamma ray spectra from blazars
 - Organized and presented preliminary results in student research fair poster
 - Co-authored on conference presentation and in-progress paper
- Cal Poly Physics**, Learning Assistant San Luis Obispo, CA
Jan 2023 - June 2024
- Facilitated in-class discussion with physics students
 - Prepared for lessons with pedagogical discussions with faculty

Industry Experience

- Dexcom**, Systems Engineering Intern San Diego, CA
July 2024 – Aug 2024
- Designed physical impact testing for wearable glucose sensors
 - Created detailed timeline to ensure coordination between long lead-time tasks
 - Modeled and 3D printed test fixtures to fit with existing equipment
 - Analyzed and presented data using DOE (Design of Experiment) software
- Yaskawa**, Engineering Intern Santa Clara, CA
June 2023 – Sep 2023
- Embedded robot controller programming for data integration
 - Kinematics derivations and microservice communications
 - 1D displacement laser measurements and hypothesis testing
- ScoreStream**, Contract Programmer San Diego, CA
July 2022 – Sep 2022
- Used API to compile future sports game data into pick'em forms
- Defispot**, Software Intern San Diego, CA
Aug 2022 – Sep 2022
- Design changes on app.defispot.com in Typescript and Javascript
 - Backend improvements to user trading data access

Projects

Herbie Robotics Project

Jan 2023 - Dec 2023

- Applied for and awarded grant funding
- Built an interactive and educational trailer for an autonomous robot
- Presented to local preschoolers

Personal Coding Projects

rettdog.github.io/coding/

- Physics Monte Carlo Simulations, Language Parsing, etc.

Cal Poly Robotics Club

Spring 2022 - Spring 2024

- Designing and assembling components of ongoing [astromech project](#)
- Created intentional onboarding projects to improve retention of new members

Certifications

Oracle Certified Associate, Java SE 8 Programmer

Skills

Programming: Java, Python, MATLAB, C++, Typescript/React, C#, IEC 61131, GitHub, LaTeX, Linux

Technologies: CAD (Solidworks, Onshape), 3D Printing, JMP