Garrett Kunkler

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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, Optimization, Environmental Physics

Academic Experience

KTH Medical Imaging, Undergraduate Physics Research
Stockholm, Sweden
Aug 2024 - (June 2025)
- Simulating particle interactions in CT scanning sensors
- Creating module in open-source simulation framework Allpix Squared
- Writing scripts to plot and analyze motion of charges

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
- Web design changes 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   gkunkler.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 intential onboarding projects to improve retention of new members

Certifications

Oracle Certified Associate, Java SE 8 Programmer

Skills

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

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