Garrett Kunkler

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Education

California Polytechnic State University, B.S. Mechanical Engineering   San Luis Obispo, CA
- **GPA:** 4.0/4.0   Sep 2021 – (June 2026)
- **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
- **Grade:** A   Aug 2024 – (June 2025)
- **Coursework (Master's Level):** Acoustics, Medical Engineering, Electrodynamics, Game Theory, Computational Fluid Dynamics

Academic Experience

KTH Medical Imaging, Undergraduate Physics Research   Stockholm, Sweden
- Simulating particle interactions in CT scanning sensors   Aug 2024 - (June 2025)

VERITAS, Undergraduate Physics Research   San Luis Obispo, CA
- Analyzed gamma ray spectra from blazars   Sept 2023 - June 2024
- 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
- Facilitated in-class discussion with physics students   Jan 2023 - June 2024
- Prepared for lessons with pedogical discussions with faculty

Industry Experience

Dexcom, Systems Engineering Intern   San Diego, CA
- Designed physical impact testing for wearable glucose sensors   July 2024 – Aug 2024
- 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
- Embedded robot controller programming for data integration   June 2023 – Sep 2023
- Kinematics derivations and microservice communications
- 1D displacement laser measurements and hypothesis testing

ScoreStream, Contract Programmer   San Diego, CA
- Used API to compile future sports game data into pick'em forms   July 2022 – Sep 2022

Defispot, Software Intern   San Diego, CA
- Design changes on app.defispot.com in Typescript and Javascript   Aug 2022 – Sep 2022
- 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.

Certifications

Oracle Certified Associate, Java SE 8 Programmer

Skills

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

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