

JAMIE FEINSTEIN

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Project Portfolio: <http://feinsteins.net/jamie>

Focus: CFD, Turbulence Modeling (RANS/LES), and Experimental Fluid Mechanics

EDUCATION

California Polytechnic State University - San Luis Obispo (Cal Poly)
Bachelor of Science in **Mechanical Engineering + Math Minor**, Dec. 2026
Current Overall GPA: 3.5 Current Class Level: Junior
Blended Master of Science in **Mechanical Engineering (Thesis Track)**, Dec. 2027
Bellevue College – Bellevue, WA (concurrent with high school)
Associates in Arts and Sciences, Earned: Jun. 2023

Relevant Coursework: Thermodynamics 2, Fluid Mechanics 2, Heat Transfer, Mechanical Vibrations, Intermediate Dynamics, System Dynamics, Controls, Electronics, Viscous Flow, Mathematical Proofs, Geophysical Fluid Modeling, Advanced Differential Equations

MECHANICAL ENGINEERING & RELEVANT PROJECT EXPERIENCE

Cal Poly FORCE – Founder & President (CFD / Simulation Organization) Feb. 2026 – Present

- Leading student organization focused on CFD, aerodynamics, and simulation workflows (OpenFOAM).
- Developing and standardizing simulation pipelines (meshing, boundary conditions, solver setup).
- Supporting projects involving fluid flow modeling and experimental validation.

Cal Poly Senior Project – PG&E Biofouling Settlement Catchment Jan. 2025 – Present

- Designing biofouling debris catchment for Diablo Canyon intake systems using sediment transport modeling (Shields/Rouse) and turbomachinery impact considerations.
- Using open-channel flow modeling to evaluate capture performance and quantify impacts on hydraulic efficiency and head loss.

CFD Research – Designing New Fluids Lab Using OpenFOAM Nov. 2025 – Present

- Developing RANS (k- ω SST) OpenFOAM simulations for bluff body flow, including mesh and boundary condition setup.
- Validating CFD against wind tunnel data for wake and vortex shedding behavior.
- Designing 3D-printed flow visualization fixtures (tufts) for experimental analysis.

Cal Poly Rotaract – Local Community Garden Engineering Design Mar. 2025 – Present

- Leading a small engineering team tasked with designing hydroponics for 40 Prado Homeless Shelter.
- Applied fluid mechanics to pump selection, flow rate optimization, and nutrient transport.

SKILLS

Software: *Strong:* OpenFOAM, MATLAB, Microsoft Suite, SolidWorks, EES, ANSYS Workbench
Familiar: SIEMENS Femap/NASTRAN, AutoCAD, Bluebeam, Python
Hardware: wind tunnel, 3D printers, manual/auto lathe, stick/MIG/TIG welding, composite autoclave, hardness and strain testers, oscilloscope, spectrum analyzer
Language: Conversant in Mandarin Chinese
Certifications/Awards: Dean's List, Life Rank in Scouting, Ham Radio Technicians License

INVOLVEMENT

Cal Poly FORCE – President (CFD Organization) Feb. 2026 – Present
Cal Poly Rotaract – Engineering Lead Mar. 2025 – Present
Cal Poly Swim Club Sep. 2023 – Present
Innovation Sandbox – 3D Printing Club Volunteer Apr. 2025 – Jun. 2025
Cal Poly Racing Sep. 2023 – Jun. 2024

VOLUNTEER/WORK EXPERIENCE

Cal Poly Grader for ME-303: Thermodynamics 2 Sep. 2025 – Dec. 2025
Lifeguard and Group Swim Instructor Jun. 2025 – Sep. 2025
Cal Poly Grader for ME-234: Philosophy of Design Apr. 2025 – Jun. 2025
Cal Poly *Week of Welcome* Orientation Leader, Volunteer Net Controller, Youth Camp Director