

Sion Nam

(408) 502-0559 | sion@ucla.edu | linkedin.com/in/sion-nam | sionnam.com

EDUCATION

B.S. in Aerospace Engineering

University of California, Los Angeles

Los Angeles, CA

Expected June 2028

- Current Coursework: Statics & Strength of Materials, Fluid Mechanics, Engineering Thermodynamics

Aerospace Science & Technology

Las Positas College

Livermore, CA

2023 – 2026

- GPA: 3.95 | IGETC Certified | Honors Transfer Program | Physics Club

PROJECTS

FERB-1 Model Rocket | *OpenRocket, Fusion 360*

Sep. 2026 – Present

- Designed a recoverable model rocket in OpenRocket, comparing candidate motors by apogee, rail-exit velocity, CG, and CP; now selecting internal components and modeling parts in Fusion 360 for 3D printing
- First launch targeted for late 2026, then an instrumented flight: C++ firmware to log altitude and acceleration and detect flight phases, with Python analysis comparing measured apogee to the OpenRocket prediction

Honors Engineering Projects | *C++, LaTeX*

2025 – 2026

- Applied perturbation and shooting methods to nonlinear satellite-motion ODEs, deriving first-order corrections and secant-method boundary-value solutions in an honors paper (Math 5)
- Built a C++ takeoff-performance model estimating V-speeds and ground roll for four Boeing jets at SFO
- Wrote a literature review of reentry thermal protection, from Apollo-era ablators to Starship (Physics 1B)

EXPERIENCE

STEM Tutor

Self-employed

Remote

Nov. 2025 – Present

- Tutor students one-on-one in calculus, differential equations, linear algebra, and thermodynamics (100+ hours)

AI Model Evaluator

Handshake

Remote

Nov. 2025 – Present

- Evaluate AI-generated mathematics and physics solutions for technical correctness, reasoning quality, and clarity

Physics Outreach

LPC Physics Club | Techs on Decks, USS Hornet

Alameda, CA

Nov. 2025

- Led an interactive demonstration of gravity and general relativity for visitors of all ages

Student Pilot

Bay Area Flying Club

Livermore, CA

May 2024 – Apr. 2025

- Trained in Cessna aircraft toward a Private Pilot License: performed preflight inspections and followed checklist procedures; studied aerodynamics, engines, and flight instruments; practiced decision-making under pressure

HONORS

Dr. Odie J. Douglas Award (2026): Middle College record for most units earned with a 4.0 GPA

Jane HJ Yoon Foundation Scholarship (2025, 2026): leadership and volunteer service

President's Volunteer Service Award, Gold (2023): 250+ volunteer hours in one year

TECHNICAL SKILLS

Programming: C++, MATLAB (coursework)

Software: OpenRocket, Fusion 360 (CAD), Excel, LaTeX

Fabrication: 3D printing (FDM)

Languages: English, Korean (native)