Riley Tinianov

Mechanical Engineering
University of California, Santa Barbara

+1-408-966-9142
rileytinianov@gmail.com
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Education

- **University of California, Santa Barbara** — June 2024
  BS in Mechanical Engineering — GPA: 3.67/4.0

- **University of California, Santa Barbara** — Expected June 2025
  Master's in Mechanical Engineering, Specialization in Thermo and Fluid Sciences — CGPA: 3.93/4.0

Experience

- **Mynt Systems** — 09/2022 - 03/2024
  Junior Project Engineer — Santa Cruz
  – Spearheaded analysis of energy usage for major construction and automotive companies
  – Designed, visited, and repaired dozens of solar arrays, some exceeding 2 Megawatts in size

- **Mynt Systems** — 03/2022 - 09/2022
  Engineering Intern — Santa Cruz
  – Facilitated communication between over 60 active clients and the relevant solar manufacturers
  – Overhauled manual client-facing production reports and instead used PHP to collect data directly from third-party production APIs

Research/Project Experience

- **Spacial Climate Solutions Lab** — 10/2024 - Present
  Graduate Researcher
  – Singlehandedly designing agrivoltaic systems and crop models for Washington State orchards

- **Fluid Energy Science Lab** — 06/2024 - 10/2024
  Graduate Researcher
  – Created and performed wind tunnel experiments using porous discs as wake generators to confirm advanced fluid mechanics analytical models

- **Cause-and-Effect Vehicle: Chassis, Motor, Electronics Lead** — 09/2023 - 06/2024
  Senior Capstone Project, California Children Services
  – Led a team in designing a flexible physical therapy vehicle for children with Cerebral Palsy
  – Awarded Top Technical Achievement for my work in designing and machining drivetrain, chassis, custom PCB, and electronic integration

- **Multiphase and Multiscale Lab** — 02/2023 - 03/2024
  Research Assistant
  – Solo designed, built, and programmed a working humidity chamber with PID controller
  – Research explored capillary forces in viscoelastic suspensions

Technical Skills and Interests

Developer Tools: SolidWorks, MATLAB, COMSOL (ANSYS Alternative), Arduino, Python
Soft Skills: Critical Thinking, Problem Solving, Adaptability
Highlight Coursework: Fluid Mechanics, Robotics Design, Thermodynamics
Areas of Interest: Aerospace, Engineering Design, Mechatronics, Fluid Mechanics

Extracurricular Activity

Collegiate Chess League 1st in USA (Div. 7) 21-22, 2nd in USA (Div. 6) 22-23 — 09/2021 - 05/2023