Aadit Kannan

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Mechanical engineering student at UC Berkeley interested in robotics, material research, and space.

EDUCATION

University of California, Berkeley (Aug 2025 – Present)

- BS in Mechanical Engineering: Sophomore Standing
- Relevant Coursework: Engin 7 (Python/Matlab), Chem 1A, Physics 7A
    - SPRING '26: Engin 29, Multivariable Calculus, Physics 7B (Electricity and Magnetism)

Santa Clara High School (Aug 2021 – Jun 2025)

- Relevant Coursework (AP + DE): Calc BC, Linear Algebra, Physics C, Chem, CSP, Physics 1, Stats, Research, Macro

EXPERIENCE

Formula Electric (Berkeley, CA)

Accumulator Mechanical Sep 2025 - Present

- Designed and manufactured the attic casing for the high-voltage accumulator (battery), implementing waterproofing, high-dielectric-strength insulation to manage the 588V pack

Robotics (FIRST) (Santa Clara, CA)

Captain (Zenith #20424), Hardware Lead (Deja Vu #13216) Aug 2021 - Aug 2025

- Mentored 30+ members in Java and CAD, improving team functionality and leading teams to regional competitions
- Designed robot in CAD with 500+ parts, performing FEA to optimize custom components for stress, winning robot design award (x3)
- For outreach, raised over $5000 across teams, launched an innovative parts exchange program, developed both team websites

STEM Leadership Institute (SLI) (Santa Clara, CA)

Student Leadership Committee (SLC), Program Member Aug 2019 - Aug 2025

- Trained 120 middle school STEM students on Arduino for science fair projects (SLC)
- Designed mock competition and mentored 5 FIRST Lego League teams (SLC)
- As part of a 6 year selective program, established career interests through 1800+ hours of STEM sessions and advanced coursework
- Gained experience with CO2 laser cutter, CNC mill, 3D printer (FDM + SLA), CNC, and woodshop tools

Pear Volunteering (Santa Clara, CA)

Founder Aug 2023 - Aug 2025

- Developed an app/website to connect 2000+ students, 20+ event organizers, and school admin, facilitating volunteer opportunities
- Implemented secure webhook/CMS-integrated system for scalable, high-volume data handling and encrypted user communication

Bay Club (Santa Clara, CA)

Squash Coach Aug 2024 - Aug 2025

- Coached 15+ students age 5-12 in tournament prep, designing drills, workouts, and lessons

Posha (Formerly Nymble) Robotics (San Mateo, CA)

Mechanical Engineering Intern Jun 2023 - Aug 2023

- Repaired 20+ customer cooking robots by troubleshooting electrical and mechanical systems, and debugging

PROJECTS

Inventry (2025-Present)

- Developed website for robotics part inventory tracking, utilizing AI invoice indexing and dynamic webscraping for 1000+ part catalogs
- Integrated part-lending service with incentives, imposed extensive privacy measures for user interaction, now developing a part market

Atlas SMR (2025-Present)

- Developed an interactive web tool to evaluate SMR feasibility in rural areas, integrating geospatial data and weighted scoring to compare site viability.
- Added hybrid SMR–solar modeling to visualize energy demand, environmental constraints, and overall system potential.

Construction Acclimation Regulation (2023)

- Gathered site data to develop alternative devices to costly acclimation probes, and to cut $118M from Palo Alto's spending.

SKILLS

Mechanical Engineering: Fusion360, Solidworks, Solidworks PDM, FEA (Simscale/Fusion Sim), CAD/CAM/CAE, XFLR5, Machining
Software Development: Python, Java, HTML/CSS/JS, Git, OOP, Android Studio, Web Design