

Aadit Kannan

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Mechanical engineering student at UC Berkeley interested in robotics, space, and drone technology.

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)
Co-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
- 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 web scraping for 1000+ part catalogs
 - Integrated part-lending service with incentives, imposed extensive privacy measures for user interaction, now developing a part market
- Circuit Minds** (2022-2024)
- Created free educational content to inspire youth interest in engineering, reaching 30+ K-8 students via work sessions
 - Designed small vehicle kits for K-8 students to assemble
- 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

