

Aadit Kannan

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Education

B.S. Mechanical Engineering, Minor in EECS · UC Berkeley

Aug 2025 – Present

- Current Coursework: Engin 29 (Manufacturing/Design), Math 53 (Multivariable Calc), Physics 7B (E&M)
- Prior Coursework: Engin 7 (Python/Matlab), Chem 1A, Physics 7A (Mechanics)

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
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Skills

Mechanical Engineering: Fusion360, Solidworks/PDM, FEA (Simscale/Fusion), CAD/CAM/CAE, XFLR5, Machining

Software Development: Python, Java, HTML/CSS/JS, Git, OOP, Android Studio, Web Design

Experience

Undergraduate Researcher · Ramesh Lab

Jan 2026 – Present

- Working with postdocs to grow thin-film oxide heterostructures (primarily BFO) via pulsed laser deposition, shadowing deposition workflows and operating PLD systems to synthesize multiferroic films, analyzing via XRD and AFM

Accumulator Mechanical Member · Formula Electric Berkeley

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

Deja Vu #13216 Hardware Lead & Zenith #20424 Captain · Robotics (FIRST)

Aug 2021 – Aug 2025

- Designed 8 robots in 500+ part CAD assemblies, used FEA to optimize custom components, won Design Award (x3)
- Mentored 30+ members in Java and CAD, improving team functionality and leading teams to regional competitions
- For outreach, raised over \$5000 across teams, launched an innovative parts exchange program, designed team websites

Student Leadership Committee · STEM Leadership Institute (SLI)

Aug 2019 – Aug 2025

- Trained 120 middle school STEM students on Arduino for science fair projects
- Designed 3 mock competitions and mentored 2 FIRST Tech Challenge and 5 FIRST Lego League teams
- As part of a 6 year selective program, established career interests through 1800+ hours of STEM sessions and coursework
- Gained experience with CO2 laser cutter, CNC mill, 3D printer (FDM + SLA), CNC, and woodshop tools

Founder · Pear Volunteering

Aug 2023 – Aug 2025

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

Squash Coach · Bay Club

Aug 2024 – Aug 2025

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

Mechanical Engineering Intern · Posha (Formerly Nymble)

Jun 2023 – Aug 2023

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

Atlas SMR

2025 – Present

- Developed site to evaluate SMR feasibility in rural areas, integrating site data and weighted scoring to prove usability
- Added hybrid SMR–solar modeling to visualize energy demand, environmental constraints, and overall system potential

Inventory

2025 – Present

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