

Aayush Patel

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aayushpatel.com

Education

2016 - 2020

University of California, Berkeley | Berkeley, CA

B.S. - Mechanical Engineering

Minor - Electrical Engineering & Computer Science

Certificate - Entrepreneurship & Technology

May 2020

GPA - 3.33

Relevant Courses

- Intro Solid Mechanics
- MATLAB

- Drafting & Design / CAD
- Physics Mechanics, Magnetism, & Elec.
- Linear Algebra / Differential Equations

- Multivariable Calculus
- Tech Firm Leadership
- Java

Experience

Aug. 2017 - present

Challenge Lab Startup Competition | University of California, Berkeley

- Working in a cross-discipline, start-up team to create innovative Internet 3.0 technologies with the goal to help users gain more control of their data
- Engaged in a realistic start-up development process by using rapid iteration build, market analysis and validation, and frequent code review by mentors at top technology companies
- Pitching final product to real investors from VC firms for potential funding

Dec. 2016 - present

CalSol (Solar Electric Vehicle Team) | University of California, Berkeley

- Working in the mechanical team and using computer modeling to design and analyze the chassis and suspension

Mar. 2017 - present

Student Technology Fund Program Associate | University of California, Berkeley

- Manages analysis and documentation of STF project proposals and actively funded projects
- Maintains and designs the STF website, including content updates for funded projects
- Interviews project leaders who are requesting potential funding

May 2017 - Aug. 2017

Mechanical Engineering Intern | NovaWurks

- Led the restoration and depressurization of a vacuum chamber for in-house HiSat (Hyper-Integrated Satlet) TVAC testing, saving money by reducing outsourcing fees
- Designed and manufactured a versatile rig to more accurately test HiSat camera functionality as satlet production increases
- Gained rapid prototyping experience by utilizing polyjet 3D printers and FEA to develop parts

Jun. 2015 - Aug. 2015

Research Intern | University of California, Irvine

- Manufactured and successfully flew an insect-like flapping wing micro air vehicle
- Designed and optimized the primary frame and passive flapping mechanism to generate greater lift with lower power consumption

Projects

Feb. 2017 - Mar. 2017

ASME Aerospace Design Challenge | University of California, Berkeley

- *Awarded 1st Place by ASME and Best Use of Fusion 360 by Autodesk*
- Designed a vertical take-off and landing personal air vehicle (PAV) for middle-class consumers
- Used Fusion 360 to design the PAV and worked under strict production and operational limits
- Focused on the physics and mechanics of the tilt wing system, including power transmission

Nov. 2016

Dual Output Servo Design Project | University of California, Berkeley

- Created a set of AutoCAD drawings, redesigning a single output servo into a dual output servo

Awards

Mar. 2017

Best use of Google App Engine (Hacktech 2017) | Google

- Developed a NLP-based chatbot to control Nest Smart Thermostats through Skype, Facebook Messenger, or SMS and utilized Microsoft Azure's LUIS API to process user inputs

Jan. 2016

Finalist Scholar | The National Space Club

- Recognition in mechanical engineering for research with micro air vehicles and robotics work

Dec. 2015

Invention Challenge | NASA-JPL

- 3rd Place & Most Unique Projectile Launching System Design

Skills

Programs: Solidworks, AutoCAD, Autodesk Inventor and Fusion 360, MS Office Suite, Photoshop

Machining/Manufacturing: mills, lathes, hand-tools, laser cutting, FDM and polyjet 3D printing