

Divya Gangaramani

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EDUCATION

University of California, San Diego

Sep 2021 - Jun 2025

B.Sc. Mechanical Engineering: Specialization in Renewable Energy and Environmental Flows (3.72 GPA: Provost Honors)

- **Coursework:** Computational Methods/Design, Heat Transfer, Solid Mechanics, Materials Science, Statics & Dynamics, Fluid Mechanics & Dynamics, Thermodynamics, Linear Control, Introduction to Renewable Energy, Environmental Flow & Transport, Product Design & Entrepreneurship, Managing Diverse Teams, Accounting, Business Finance, Business Project Management

WORK EXPERIENCE

SwirlX

Jan 2025 - Jun 2025

Mechanical Engineering Intern

San Diego, California

- Supported the development of heat exchanger systems for Cooling Distribution Units (CDU), contributing to enhanced energy efficiency in data centers
- Executed CFD simulations to refine cooling system designs, improving performance and reducing energy consumption by 20%
- Implemented stereolithography to accelerate rapid prototyping, reducing lead times by 30% to meet client project milestones

Pyramid Engineering

Jul 2023 - Aug 2023

Research & Development Intern

Auckland, New Zealand

- Developed a chemical conversion coating process for aerospace components in compliance with military compliance standards
- Designed and fabricated lab-scale testing container frames using SolidWorks, streamlining testing setup and increasing efficiency by 25%
- Conducted controlled wet lab experiments utilizing precise instrumentation and measurement tools to validate process reliability

Rady School of Management, University of California, San Diego

Apr 2023 - Jul 2025

Teaching Assistant

San Diego, California

- Led the Managing Diverse Teams class, engaging 90+ students in discussions on teamwork and cross-functional collaboration
- Boosted student engagement and participation rates by 30% through the strategic implementation of an inclusive curriculum
- Maintained a 95% student satisfaction rate for over 2 years, by fostering an inclusive and collaborative learning environment

COURSE PROJECTS

Endoscopic Multi-Load Clip Applier for da Vinci Surgical Robot

Nov 2024 - Mar 2025

- Collaborated with UCSD Health to develop a surgical clip applier compatible with Da Vinci Xi system for cardiothoracic procedures
- Adhered to a strict budget of \$3600 while carefully managing resources to maintain project deliverability within time constraints
- Administered risk reduction tests and data analyses across the product life cycle to enhance design accuracy and tolerance limits
- Directed the prototyping cycle through iterative design while inspecting compliance with ISO standards for medical equipment

Entrepreneurship Project: Aqwa

Sep 2023 - Dec 2023

- Innovated 'Aqwa,' a sustainable, color-coded water meter for showers, designed to educate children on water conservation
- Enhanced prototype through 50+ interviews and surveys, guaranteeing product addressed parental concerns regarding water usage
- Engineered interactive elements, including a tactile button and programmable LEDs, to visually indicate water usage phases
- Presented a compelling pitch to investors at Blackstone Launchpad, showcasing the product through robust financial metrics

SKILLS & INTERESTS

- **Technical Skills:** SolidWorks, AutoCAD, Fusion 360, ANSYS, CFD Analysis, CAM, CNC Machining, G-Suite, Mechanical Design, Microsoft Office, Python, MATLAB, Lean Manufacturing
- **Research Methodologies:** Experimental Design, Data Analysis, Engineering Compliance Standards
- **Project Management:** Budget Oversight, Problem Solving, Resource Allocation, Time Optimization, Managing Diverse Teams

EXTRA-CURRICULARS

Student Body Government, San Diego, CA

Sep 2022 - Sep 2023

Campus-wide Engineering Senator

- Elected as UCSD's Engineering Senator by a student body of 32,000, championing the engineering community's interests
- Coordinated within a 50-member student body government to advocate transparency and effectively represent student voices
- Partnered with San Diego's Environmental Health Facility to establish electronic waste disposal cans at over 5+ campus locations