

# SPARSH GOYAL

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## EDUCATION

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**University of Southern California**, Los Angeles, CA

May 2025

Bachelor of Science, Mechanical Engineering, Viterbi School of Engineering; **Cumulative GPA: 3.55**

**Richmond American University, London, UK**, Study Abroad

August 2022-December 2022

## SKILLS & INTERESTS

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- Languages: Fluent in English; Fluent in Hindi
- Technical: Java, SolidWorks, Microsoft Word, Microsoft Excel, Microsoft PowerPoint, MATLAB, Siemens NX, R Basics
- Interests: Robotics, Formula 1, Soccer, Entrepreneurship, Running: Cross-Country, Ethical Hacking, Family Business Society

## WORK EXPERIENCE

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**Mechanical Engineering Intern, Bhaskar Venkatesh Products Pvt Ltd, India**

April 2021-Present (Remote)

- Analyzed machine backup parts and reserve supplies, minimizing equipment downtime by 8% through optimized stock levels
- Conducted research on common causes of wear and tear of appliances like gears and bearings, to minimize maintenance expenses
- Collaborated with the operations manager to effectively engineer specialized equipment, ensuring optimal performance
- Incorporated practices such as Just-In-Time (JIT) inventory management while continuously monitoring manufacturing processes

**Student Worker, Baum Family Maker Space, USC, Los Angeles, USA**

September 2023-Present

- Instruct and facilitate comprehensive training sessions at BFMS, instructing students on the safe and proficient use of power tools
- Lead sessions focused on tools such as handheld drills, band saws for wood cutting, orbital sanders, and Dremel rotary tools

**Mechanical Engineering and Business Management Intern, Anant Products, India**

March 2022-May 2022

- Coordinated with the business team to automate manufacturing, formulated budgeting strategies for labor-efficient production
- Introduced eco-conscious measures, encompassing the assessment and incorporation of sustainable materials and practices
- Implemented cost-saving measures like integrating efficient machinery and streamlining supply chain to reduce costs by 10%
- Incorporated energy-efficient practices in the manufacturing process, resulting in a ~15% decrease in energy consumption

## ACADEMIC PROJECTS

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**USC Formula SAE Racing, Student Member, USC**

January 2023-Present

- Contributed to constructing a Formula-based competition vehicle chassis, honing project management and teamwork skills
- Designed, analyzed and fabricated hardware parts used in car assembly such as bushings, washers, and plates
- Researched and established an understanding of suspension and other wheel efficiency aspects such as camber, toe, and caster

**Rover Design Project (ENGR 7B)-Team Member, University of California, Irvine**

January 2022-March 2022

- Built a 4-wheel vehicle in collaboration, utilizing polycarbonate and components such as Pixy Cam, Arduino, and various sensors
- Designed and manufactured components with precise specifications and customized them using laser cutting and 3D printing

**Rover Design Project (ENGR 7A)- Team Member, University of California, Irvine**

September 2021-December 2021

- Collaborated with a team of engineers to design and manufacture a rover capable of navigating a complex obstacle course
- Engaged in routine design evaluations to guarantee the achievement of project milestones, adhering to budgetary considerations

## LEADERSHIP AND INVOLVEMENT

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**Professional Chair, Theta Tau- Professional Engineering Society, USC**

August 2023-Present

- Led initiatives to boost technical knowledge among engineering students through workshops, industry visits, and guest lectures
- Supervised projects applying mechanical engineering principles, including prototyping and hands-on learning experiences

**Student Council House Vice-Captain (House: Pravir), The Sanskaar Valley School, Bhopal**

January 2021-December 2021

- Collaboratively orchestrated school-wide initiatives aiming to enhance school spirit and foster community engagement
- Instituted and managed a peer mentoring program to support underclassmen in their academic pursuits and career aspirations

**Team Leader-Senior High Team, TechRobo Centre, Bhopal, India**

June 2019-June 2021

- Lead a team of four at the senior level of the World Robot Olympiad/ WRO and used EV3 software to prototype a moving rover
- Oversaw, fabricated, and modeled an automated rover capable of lifting and dropping pieces at specific stops on a path

## VOLUNTEER EXPERIENCE

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**Water Drop LA, USC**

January 2023-Present

- Assisting the organization in achieving its goal of giving 20000+ gallons of clean and safe drinking water to those in need

**Madhya Pradesh Congress Committee, Bhopal, India**

March 2020-March 2021

- Made available 25,000 meals per day for the homeless during the COVID-19 pandemic continuously for a year