

## SPARSH GOYAL

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### EDUCATION

<b>University of Southern California</b> , Los Angeles, CA Viterbi School of Engineering Bachelor of Science, Mechanical Engineering; <b>GPA: 3.714</b>	May 2025
<b>Richmond American University, London, UK</b> , Study Abroad	Sep 2022-Dec 2022

### SKILLS

- Languages: Fluent in English; Fluent in Hindi
- Technical: Java, Solidworks, Microsoft Office, MATLAB, CAD Software NX, Ethical Hacking, R Basics
- Interests: Robotics, Running: Cross-Country, Golf, Entrepreneurship

### WORK EXPERIENCE

<b>Bhaskar Venkatesh Products PVT LTD, Bhopal, India</b> <b>Internship and Company Case Study</b>	Apr 2021-Present
<ul style="list-style-type: none"><li>• Contribute to planning machine backup parts and reserve supplies to ensure uninterrupted production during equipment failures and to maintain adequate stock levels of these parts, reducing equipment downtime by 12%</li><li>• Procure specialized equipment by working with the operations manager, routinely checking manufacturing procedures</li><li>• Enhance knowledge of machine functions and identify frequent wear and tear causes, such as gears and bearings, to reduce maintenance costs and use the labor force as a backup</li></ul>	
<b>Anant Products, Bhopal, India</b> <b>Part-time Assistant</b>	Mar 2020
<ul style="list-style-type: none"><li>• Coordinated with the business team to automate the company's procedures during the lockdown in India, optimizing production and efficiency and leading to cost savings for the company</li><li>• Formulated strategies for producing goods with reduced labor, which lowered wage costs by approximately 35%</li></ul>	

### ACADEMIC PROJECTS

<b>University of California, Irvine</b> <b>Rover Design Project (ENGR 7B)-Team Member</b>	Jan 2022-Mar 2022
<ul style="list-style-type: none"><li>• The rover was built in collaboration, utilizing polycarbonate and components such as Pixy Cam, Arduino and more</li><li>• Applied laser cutting and 3D printing to manufacture components with exact measurements</li></ul>	
<b>Rover Design Project (ENGR 7A)- Team Member</b>	Sep 2021-Dec 2021
<ul style="list-style-type: none"><li>• Collaborated with a team of engineers to design and construct a rover capable of navigating a course with obstacles</li><li>• Participated in regular team meetings and design reviews to ensure project milestones were met within budget</li></ul>	

### LEADERSHIP AND INVOLVEMENT

<b>USC Formula SAE, Student Member, USC</b>	2023-Present
<ul style="list-style-type: none"><li>• Collaborating with the team to design, analyze and fabricate high-performance vehicle chassis, paying attention to details such as camber, toe, and various elements</li><li>• Acquiring project management skills, teamwork, and problem-solving ability in a dynamic and fast-paced environment</li></ul>	
<b>Theta Tau- Professional Engineering Fraternity, USC</b>	2023-Present
<b>Student Council House Vise-Captain (House: Pravir), The Sanskaar Valley School, Bhopal</b>	2021
<ul style="list-style-type: none"><li>• Served the school collaboratively with other council members and school administrators to organize events and activities to promote school spirit and community involvement</li></ul>	

<b>Team Leader-Senior High Team, TechRobo Centre, Bhopal, India</b>	Jun 2019-Jun 2021
<ul style="list-style-type: none"><li>• Took part in the World Robot Olympiad/ WRO (National level robotics competition)</li><li>• Oversaw a team of four individuals and utilized a Lego kit to build a rover capable of lifting and dropping pieces</li></ul>	

### VOLUNTEER EXPERIENCE

<b>Water Drop LA, USC</b>	2023-Present
<ul style="list-style-type: none"><li>• Assisting the organization in achieving its goal of giving access to clean and safe drinking water to those in need</li></ul>	
<b>Madhya Pradesh Congress Committee, Bhopal, India</b>	Mar 2020-Mar 2021
<ul style="list-style-type: none"><li>• Made available 25,000 meals per day for the homeless during the COVID-19 pandemic</li></ul>	