

## SPARSH GOYAL

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### EDUCATION

**University of Southern California**, Los Angeles, CA May 2025  
Viterbi School of Engineering  
Bachelor of Science, Mechanical Engineering; **GPA: 3.714**

**Richmond American University, London, UK**, 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

**Bhaskar Venkatesh Products PVT LTD, Bhopal, India**  
**Internship and Company Case Study** Apr 2021-Present

- 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%
- Procure specialized equipment by working with the operations manager, routinely checking manufacturing procedures
- 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

**Anant Products, Bhopal, India**  
**Business Management Intern** Mar 2020

- Coordinated with the business team to automate the company's manufacturing procedures during the lockdown in India, optimizing production and efficiency and leading to cost savings for the company
- Formulated strategies for producing goods with reduced labor, which lowered wage costs by approximately 35%

### ACADEMIC PROJECTS

**University of California, Irvine**  
**Rover Design Project (ENGR 7B)-Team Member** Jan 2022-Mar 2022

- Built a 4-wheel vehicle in collaboration, utilizing polycarbonate and components such as Pixy Cam, Arduino and more
- Applied laser cutting and 3D printing to manufacture components with exact measurements

**Rover Design Project (ENGR 7A)- Team Member** Sep 2021-Dec 2021

- Collaborated with a team of engineers to design and construct a rover capable of navigating a course with obstacles
- Participated in regular team meetings and design reviews to ensure project milestones were met within budget

### LEADERSHIP AND INVOLVEMENT

**USC Formula SAE, Student Member, USC** 2023-Present

- Collaborating with the team to design, analyze and fabricate high-performance vehicle chassis, paying attention to details such as camber, toe, and various elements
- Acquiring project management skills, teamwork, and problem-solving ability in a dynamic and fast-paced environment

**Theta Tau- Professional Engineering Society, USC** 2023-Present

**Student Council House Vise-Captain (House: Pravir), The Sanskaar Valley School, Bhopal** 2021

- Served the school collaboratively with other council members and school administrators to organize events and activities to promote school spirit and community involvement

**Team Leader-Senior High Team, TechRobo Centre, Bhopal, India** Jun 2019-Jun 2021

- Took part in the World Robot Olympiad/ WRO (National level robotics competition)
- Oversaw a team of four individuals and utilized a Lego kit to build a rover capable of lifting and dropping pieces

### VOLUNTEER EXPERIENCE

**Water Drop LA, USC** 2023-Present

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

**Madhya Pradesh Congress Committee, Bhopal, India** Mar 2020-Mar 2021

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