Rushika Prasad

Fourth Year Mechanical Engineering Student at Cornell University
Cell: 346-666-8798, Email: rushika.prasad@gmail.com, LinkedIn: https://www.linkedin.com/in/rushikaprasad/

Work Experience

KnovelMed Apprentice Internship: Summer 2025, Houston, TX, USA

Medical imaging company that pioneers rapid x-ray camera systems for surgery, diagnostics, and vet applications.

- Rapid prototyped improvements to the x-ray's movement system and mechanics.
- Fully redesigned and implemented ZohoCRM custom email campaign and automized lead conversion/tracking.

LightHearted Mechanical Engineering Internship: Summer 2025, Houston, TX, USA

Laser-based digital stethoscope company bringing early, accurate heart valve disease diagnosis into primary care.

- Re-designed housing for the stethoscope with a focus on heat management, balance and aesthetic comfort.

FibreCoat Engineering Internship: Summer 2024, Aachen, Germany

Coated fiberglass company that innovates in advanced materials for spaceflight, defense, and more.

- Designed and prototyped material transport and blockage reduction for the AluCoat Fiberglass industrial line.
- Ideated aluminum coating process improvements to reduce failure rate.

METASPARK Manufacturing Internship: Summer 2023, Bengaluru, India

Market leader specializing in complex plastic injection molds for thermoplastic and thermoset car components.

- Learned to design and fabricate molds with large-scale CNCs, lathes, and water jet machines.
- Aided in maximizing the efficiency of new employee onboarding.
- Trained to document process analysis, quality planning, production reporting, and feasibility evaluation.

CUP Robotics Project Team: 2022 – May 2025, Ithaca, NY

Cornell funded student-led multi-year Project Team focused on R&D of advanced robotics, 12 hours per week.

- Collaborated with FIRST Robotics to design Minibot-XRP, a robot to teach high school students robotics
- New Hampshire, Wisconsin, and Ohio governors have committed multi-million-dollar plans to implement it in every classroom statewide, with deployment expected in 190 countries.
- Currently working in design and production for the impeller, vents, chassis, and battery heat sinks for the XRP-Astrobee project, a recreation of NASA's flying international space station robot. It has been successfully tested in low earth orbit and will be on a be on a Blue Origin Flight in May 2025.

Skills

3D Design, Building, and Software

- Three years of intense experience in the 3D CAD program Fusion 360
- Solidworks, Blender, OnShape, and Ansys
- Shop trained in machining equipment: small scale CNCs, lathes, drill presses, and more.
- Can operate complex building and special-effect equipment like high-capacity lifts and light/sound boards
- Photoshop, Adobe Premier Pro, After Effects with specialty in logo design
- Painting, Sculpting, and Architecture within various materials such as ceramics, woods, glass, and PLA.

Language Fluency

- Fluent in English & Spanish - Won international debate competitions in Spanish, non-native World Champion.
- Competed and won awards in the national competition for forensic speaking - Extemporaneous & Impromptu.
- Semi-Proficient in German, Mandarin, Italian, French, American Sign Language, Hindi and Kannada

Business Skills

- Excelled in classes in financial accounting, finance, digital marketing, strategy, and advanced management.
- Extensive leadership experience managing simultaneous teams of up to forty people in long-term projects.
- Ran shows, built sets, managed production/personnel as a technical theater manager.