

Parker Veravanich

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EDUCATION

- Stanford University 2024-present
- ❖ Pursuing Bachelor's of Science in Physical Design + Manufacturing
 - ❖ Expected graduation date: June 2028

EXPERIENCE

- Fendorf Lab - Environmental Robotics 2026-Present
- ❖ Lead Designer + Engineer
 - Redesigning and manufacturing SmokeCast, a first responder vehicle-mounted wildfire and weather sensing system, including its field-ready electronics and enclosure.
 - Building on a platform deployed for 880 hours across 71 field days and 8,220 miles during the 2026 fire season.
- Stanford Biomimetics and Dexterous Manipulation Lab 2026-Present
- ❖ Research Assistant
 - Designing and prototyping robotic hand mechanisms for OceanOne, a humanoid underwater robot.
 - Developing CAD assemblies for motor-driven fingers and palm structures, and supporting fabrication, manufacturing, and iterative testing.
- Stanford Space Initiative (SSI) 2025-Present
- ❖ Member of the Mars Polar Rover Mechanical Engineering Team
 - Led wheel and drivetrain design decisions as well as prototyping and manufacturing for a rover set to cross Antarctica.
 - ❖ Member of the Rockets Team
 - Designed and manufactured a personal rocket, successfully launching it to 2,400 feet.
- Stanford Social Entrepreneurial Student Association (SENSA) 2024-Present
- ❖ ImpactLabs Lead
 - Organizing and leading an entrepreneurship sprint for first year students with needfinding, fundraising, prototyping, and pitching phases. Personally responsible for recruitment and outreach to professionals in the social impact entrepreneurial space as well as mentorship for the participants.
 - ❖ Member of Consulting Team
 - Evaluated AI implementation risks for 30N Ventures and assessed green agrochemical market trends and investment opportunities for Factor[E].
- ANEE Lab - EcoRAMP 2026-Present
- ❖ Research Assistant
 - Evaluating plasma reactor performance, energy use, costs, and scalability through techno-economic analysis and hands-on experiments

Technical Skills

- ❖ **Design:** Fusion 360 modeling and assemblies, Figma, python + arduino, circuits/electrical hardware, concept sketching, needfinding, user interviews.
- ❖ **Fabrication:** 3D printing, laser cutting, rapid prototyping, systems engineering, woodworking
- ❖ **Testing and Analysis:** Techno-economic analysis, scanning electron microscopy (SEM), prototype testing, experimental data collection