Christopher J. Stange

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EDUCATION

Carnegie Mellon University   Pittsburgh, PA
Bachelor of Science in Electrical and Computer Engineering   Expected May 2024
Cumulative GPA: 3.54/4.0, Dean's List

SKILLS

- *Coding:* Proficient in Python, Learning C
- *Software:* Microsoft Office, SolidWorks, Fusion 360, OpenVSP, Git, VSCode
- *Machines:* 3D Printer, CNC Router, Basic Circuit Design
- *Other:* Experience with Telescopes, Photography, Astrophotography, Proficient in Spanish

EXPERIENCE

Kashmir World Foundation, Engineering Intern   Summer 2021
- Designed and built a drone for wildlife conservation while working on the Eagle Ray Drone Team.
- Used OpenVSP to study how changes to the airfoil stack would affect flight characteristics.
- Spearheaded research on mechanical fasteners and electrical disconnects for detachable wing sections.

Rising Tide Waterfront Solutions, Engineering Intern   Summer 2019
- Learned about analysis & design of waterfront structures, inspection diving, and site construction.
- Used surveying tools & AutoCAD to create 2D/3D drawings.

PROJECTS

Carnegie Mellon Rocket Command, Avionics Subteam   Fall 2021 – present
- Tasked to design, launch, and test a rocket for NASA University Student Launch Initiative
- Develop Python and Machine Learning code for Avionics Subteam

Buggy Co-chairmen/Mechanic, PIKA Team   Spring 2021 – present
- Annual University racing competition in which teams build and customize gravity racers.
- Responsible for repairs, upgrades, race prepping, and building a new buggy for 2022 season.

Face Shields Project   March 2020
- 3D printed and donated dozens of face shields to aid with the PPE shortage during the pandemic.
- Distributed them to local hospitals which were in most need.

RELEVANT COURSEWORK   Fall 2020 – Spring 2022

- 18-100: Introduction to Electrical and Computer Engineering
- 15-112: Fundamentals of Programming and Computer Science
- 15-122: Principles of Imperative Computation
- 18-220: Electronic Devices and Analog Circuits
- 18-240: Structure and Design of Digital Systems
- 18-021: Introduction to Circuit Board Fabrication
- 18-202: Mathematical Foundations of Electrical Engineering

LEADERSHIP, ACTIVITIES, & HONORS

- Society of Hispanic Professional Engineers   Fall 2020 – present
- Carnegie Mellon Men's Swimming and Diving Team   Fall 2020 – Spring 2021
- CSCAA Scholar All-American Honorable Mention   Fall 2020 – Spring 2021
- New York State Scholar Athlete Award   2020
- All-American, Swimming (High School)   2019, 2020

COMMUNITY INVOLVEMENT

Saint James Soup Kitchen, Volunteer   August 2017 – present
- Assisted the homeless and hungry of Long Island by setting up for soup kitchen,
  serving food, and washing dishes.

Friar Faithful Sports Camp, Camp Counselor   Summer 2017 – 2019
- Played various sports with children with special needs. Board Member in 2019.