

Sarvesh Patham

sarveshpatham@gmail.com ♦ 973-832-8957 ♦ 323 Raymond Blvd, Parsippany NJ

EDUCATION

University of Illinois Urbana Champaign

Expected Graduation Date: **May 2028**

Bachelor of Science in Electrical Engineering

GPA: 4.0/4.0

The Academy for Math, Science, and Engineering

Graduation Date: **June 2024**

GPA: 101/110

- Engineering-focused public school; coursework including circuit design, product design, metal and woodworking, product entrepreneurship, and 3D modeling

EXPERIENCE

3D Pets

Oct. 2023 – April 2024

Engineering Intern

Bloomington, NJ

- Machined and constructed prosthetics to match consumer standards; increased production rate by 10 percent
- Processed body molds and developed 3D Model for prosthetics using LiDAR scanning
- Implemented organizational standard of prosthetic parts for newly constructed workshop

Cuff-Link

Academic Project

- Designed and developed the Cuff-Link, a muscle and motion tracking device for individuals with low hand dexterity
- Programmed virtual mouse using data filtered from onboard Inertial Measurement Unit (IMU) and Electromyography sensor (EMG)
- Selected as a top 3 class finalist; demonstrated product to audience of 400+

NJIT - STEM for Success

Sept. 2023 – March 2024

STEM for Success Internship

Remote

- Researched electroencephalograms (EEGs) with NJIT Professors Dr. Lipuma and Dr. Bukiet.
- Composed an introductory article discussing EEGs and their possible functions in prosthetics
- Presented information at the NJIT STEM for Success conference

ACTIVITIES

Illinois Space Society - Spaceshot

Avionics Electrical Hardware Team Member

- Developing MIDAS Sense, a board that manages current and voltage monitoring and high-resolution analog to digital converters (ADC)

SKILLS

Digital: Fusion360/Onshape (Advanced), Java(Advanced), Arduino(Advanced), Linux (Proficient), HTML, Python

Hardware: Soldering (Advanced), Electrical Design (Advanced)

Soft Skills: Communication, Teamwork, Attention to Detail, Role Delegation, Reliability