Samir Ahmed

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## Objective

Looking to acquire full-time internship or co-op in Hardware, Systems, and Software Engineering.

## Education

**University of California, Merced** Merced, CA

*BS Computer Science and Engineering* Aug 2024 – May 2028

*Class-Standing: Freshman*

**GPA: 4.0,**

Skills and Certifications

# Skills

**Extensive Experience** with Python, C++, SolidWorks, 3D Printing, Mechanical Drawings, Soldering

**Proficient** with Arduino, Ansys Design Modeler (Geometry), Excel,

# Extracurriculars

**MESA**- John F Kennedy High School: Placed 3rd in annual MESA hackathon. Participated in a district-wide competition for MESA machine where I programmed an Arduino to control an electronic speed control fan.

**John F Kennedy High School Engineering Lab-** Managed 3D print lab, diagnosed setup, and repaired: 3D printers, CNC Mills, and Lasers, Helped other students with 3D design and printing.

## Project Experience

**Project UAV - Researcher** *| AIAA UC Merced Chapter* Aug 2024 - Present

* Conducting extensive literature review to determine experimental procedures and current limitations of investigation of toroidal propellers in air.
* Evaluating state-of-the-art computer vision methods in support of research into data and feature fusion, particularly in application to urban air mobility.

**Project Dumm-E** | *Self Led* Feb 2024- Present

**-**A fully 3D printed sub-industrial robot arm for task automation, with 6 degrees of freedom, programmed to automate basic tasks such as holding parts or moving parts

Work in Progress

-LIDAR system

-Object Detection

-Teleoperation

**Project Quickshot** | *Self Led*

-Programmed a drone with OpenCV to recognize faces and follow them for recording action-shot videos

## Work Experience

**Technician Intern** *| Owens Design* June 2023 – Aug 2023

* Built mechanical assemblies for several customers’ equipment from reading CAD drawings. Tested and performed final quality inspection on 12 machines. Worked with mechanical and electrical engineers and technical leads to resolve assembly issues and meet shipment deadlines.

**Remote Intern** *| Digital Design and Manufacturing Lab, OSU* June 2024 – Aug 2024

* Processed and organized simulation data into Excel sheets for streamlined analysis and reporting. Developed a programming language to convert implicit geometric operations into explicit operations for integration into CAD systems.