# Pranav Srinivasan

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## Education

**University of Maryland - A James Clark School of Engineering** — **College Park, MD**

**Bachelor of Science, Mechanical Engineering** — **Expected Graduation Date: December 2024**

**Minor: Robotics and Autonomous Systems (RAS)**

**Cumulative GPA: 3.755**

College Park Scholars: Science, Discovery, and the Universe — Expected Citation Date: May 2023

## Technical Experience

**Baltimore Aircoil Company** — **Jessup, MD**

**Engineering Systems Intern** — **May - August 2022**

- Redesigned BAC's Pre-Punch system to edit 3D Inventor part files for hole pattern generation instead of 2D AutoCAD .dxf files
- Used Inventor API with VB.NET and Inventor automation tools such as iLogic and iFeatures to automate hole generation
- Wrote program to identify 6 key triggers to generate specific hole patterns, and created matrix with standardized hole size and placement data
- Created separate matrix for custom panel connections that can be generated at customers' request
- Automated drawing generation, including dimensions and meeting all BAC drawing standards, and export of .pdf drawings and .dxf files for manufacturing

**Johns Hopkins University Applied Physics Laboratory** — **Laurel, MD**

**ASPIRE Intern** — **September 2019 - May 2021**

- Explored the popular data anonymization method k-anonymity and its extensions l-diversity and t-closeness to protect individual privacy in health data as part of 2nd internship project
- Generated a randomized COVID-19 vaccine record dataset using Python to simulate real medical data
- Modified existing k-anonymity program to anonymize COVID vaccine records
- Nominated and selected to present project at the APL ASPIRE Showcase and gave a 5-minute lightning talk to APL staff and other ASPIRE interns

## Skills & Certifications

**Programming/Software:** C++, VB.NET, Python, ROS, MATLAB, HTML, CSS, Arduino Programming, Ubuntu, Microsoft Office

**Computer Aided Design:** SolidWorks, Autodesk Inventor, Autodesk Fusion 360, Siemens NX

**Engineering:** 3D Printing, CNC Machining

**Certifications:** Certified SolidWorks Associate (CSWA) - February 2022

## Activities

**SEDS@UMD** — **College Park, MD**

**THEIA Team - Structures/Thermals Subteam Lead** — **September 2021 - Present**

- Design structure/chassis of cubesat and casing for neuromorphic camera in Siemens NX
- Work on mass & volume budgets of components used on cubesat, including creating a CAD layout model to see how much space different components take up
- Delegate tasks to 8 members in subteam, organizing weekly meetings, and communicating results to team leads

**Robotics@Maryland** — **College Park, MD**

**Mechanical Team - Manufacturing** — **September 2022 - Present**

- Designed kickstand for Qubo, our robot, to protect equipment on the underside of the robot and making equipment easier to access and maintain
- Manufacturing kickstand at UMD TerrapinWorks IFL lab using metal stock
- Design camera mount and casing, which will be designed in SolidWorks CAM and manufactured using CNC machine