

Aakarsh Gupta

New Hyde Park, NY

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in [guptaakarsh](#) & [aakarsh507.github.io](#)

EDUCATION

Purdue University West Lafayette, Indiana *2023-2027*

Bachelors of Science, First Year Engineering (FYE)

- Vertically Integrated Projects (VIP) Learning Community
 - Purdue Aerial Robotics Team (PART)

New Hyde Park Memorial High School New Hyde Park, New York *2019-2023*

Cumulative, GPA 95.25 (unweighted) 99.79 (weighted)

Honors:

- High Honor Roll Student
- Inducted into National Junior Honor Society, National Science Honor Society, National Technical Honor Society, National Social Studies Honor Society, National Math Honor Society, and National English Honor Society
- Awarded Rochester Institute of Technology Computing Medal/Scholarship

EXPERIENCE

Digital Marketing Intern | Purity Products Plainview, New York *July - August 2023*

- Utilized advanced Excel functions, including VLOOKUP, to input and analyze retail data, ensuring accurate and well-organized information.
- Developed and maintained spreadsheets for tracking sales, inventory, and customer engagement metrics, enhancing data-driven decision-making processes.
- Leveraged Python, utilizing libraries such as pandas and scikit-learn, to conduct comprehensive customer segmentation analysis. Uncovered distinct segments based on behavior and Lifetime Value (LTV), employing advanced techniques for data clustering and classification.

Educator | Long Island Children's Museum Garden City, New York *August 2022 - 2023*

- Interact with children, parents, and caregivers at various interdisciplinary exhibits & assist in play-based learning on the museum floor.

Product Development Intern | Comet Santa Clara, California (remote) *July 2022 - September 2022*

- Comet is an all-in-one task manager that helps students choose their major, find the right colleges, and keep track of their college apps.
- Participated in user tests following CTO's guidelines and contributed to product development by providing critical feedback & thoughtful recommendations
- Collaborated with engineers and other departments to develop effective strategies and test plans
- Created a web application to display colleges in a simple and interactive way and conducted a market audience survey to understand how to solve a problem related to preparing for college.

Intern | AP Consulting PLLC New Hyde Park, New York (remote) *July 2021 - August 2021*

- Analyzed AutoCAD building plans, outlined the details, and submitted via NYC DOB portal for approval.

PROJECTS

NASA TechRise Student Challenge *January 2022 - July 2022*

- Participated in the NASA TechRise Student Challenge, devising an innovative instrumentation package featuring multiple sensors to measure environmental indicators—Ozone, Carbon Dioxide, Volatile Organic Compounds, and PM2.5—demonstrating the effects of climate change.
- Collaborated on the integration of PMSA003I and DPS310 sensors, contributing to the development and assembly of the instrumentation package, culminating in successful testing within Harvard University's environmental chamber.

Biometric Garage Door Opener *June 2022 - July 2022*

Skills: Arduino, Laser Cutter, C++, VCarve, AutoCAD, and Soldering

- Engineered a secure garage door opener using Arduino Uno, integrating fingerprint authentication for enhanced security and user convenience.
- Developed custom firmware in C++ and employed precise soldering techniques for hardware assembly, ensuring durability and reliability.
- Designed a storage unit with VCarve, complementing the final product's aesthetics and functionality.

SKILLS

- Computer Skills: MS Suite (Word, Excel, PowerPoint), G Suite (Drive, Sheets, Slides, Docs), CAD (AutoCAD, VCarve, OnShape), OS (Linux, Windows, IOS), DaVinci Resolve
- Programming/Tools: HTML, CSS, Python, C++, Matlab, Visual Studio Code, GitHub
- Technical Skills: Arduino, Raspberry Pi, Soldering, Laser Cutter, ShopBot