
AKASH SINGH

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OBJECTIVE

Currently a Freshman at *Georgia Institute of Technology* looking forward to *utilizing my knowledge* gained so far to apply further in college for a degree in Industrial Systems Engineering *to drive and push forward my career goals* along with *solving real world problems* to help *give back to the community* and *contribute* to making it a better place.

EDUCATION

Georgia Tech: GPA: *4.0*; Graduating in *May 2029*

Wheeler High School: Weighted GPA: *4.62*; Graduated in *May 2025*

SERVICE HOURS

Over 200 total community service hours since August 2021 earned through clubs and other opportunities.

SKILLS

Leadership Qualities

Writing and editing

Research proficiency

Problem-Solving

Multitasking Abilities

Excellent Communication

Creativity and Innovation

Teamwork and Collaboration

Time Management

Attention to Detail

EXPERIENCE

1. Georgia Institute of Technology, LIDAR Lab, 3D Modeling/Parts Assembly Intern

June 2024 - July 2024

- Worked in *Georgia Tech's LIDAR Lab* under *Professor Ye Zhao*.
- Designed testbeds for robots as well as analyzed components of the robots, along with creating 3D models for wheels and attached them on a gantry that held a robot.
- Created and analyzed code for future developments (HECTOR Foot Program Analysis)

2. Emory University, Goizueta School, 21st Century Summer Youth Leadership Institute

June 2nd, 2024 – June 7th, 2024

- Selected via a competitive application and interview process to attend a leadership program building network by working with 75 peers from Georgia with the desire and motivation to step into leadership roles in future.
- Connected with multiple business professionals to connect with and explored variety of organizations on how they work and operate by participating in tours to companies like Coca-Cola, Cox Enterprises.
- Prepared organizational restructuring proposals for Insight Global, a staffing company

3. Summer Internship as a CAD designer/parts assembly, LIDAR Lab, Georgia Institute of Technology

June 2023- July 2023

- Interned as a *Member of the Mechatronics sub-team* for *Prof. Ye Zhao* at *Georgia Tech* on the '*Cassie Foot Sensing*' and '*Digit Hand Gripper*' Project during the summer of 2023.
- Helped purchase the needed materials for the robot and assembled the tactile sensors on the Cassie Foot to ensure that we had a fully functional foot.
- Helped in designing the exterior cover for arm of robot using Computer Aided Design and printed the design using 3D printing and manually attached it to the arm of the robot.

4. GenCyber Summer Program, Kennesaw State University

June 5th 2023- June 9th 2023

- Selected via a competitive application process wherein I learnt the basics of cybersecurity through sessions held with guest speakers and hands on activities with other selected group of students.
- Completed mandatory daily assignments with deadlines and worked with raspberry Pi during Lab activities.
- Received a certificate of completion and mastery in the program.

5. Summer Internship as a Data Analyst/ Data Modeler, Georgia Institute of Technology

June 2022- July 2022

- Interned for a bio-locomotion project in the lab of *Prof. David Hu*, at *Georgia Tech* during the summer of 2022.
- Tasked to collect video samples from my peers working in the lab for analysis of movements of the insects in a jar full of earwax. The video samples would provide the needed data for my analysis.
- Incorporated changing variables such as time, position of the insect on the frame, speed, etc. and other measurements from the data collected to create tables, charts, and graphs on the app 'Tracker' for my team to use in their research and establish conclusions.

6. Math Circle Program, Louisiana State University

June 2021- July 2021

- Virtual summer program that provided the opportunity to conduct mathematical research wherein I partnered with a grad student to conduct research on the concept of **Combinatorics**.
- We made a detailed presentation and presented it to LSU's faculty in the end.
- This resulted in a great experience for me to understand the comprehensive approach to any research process and its respective challenges.

LEADERSHIP POSITIONS

1. **Science National Honors Society – *Treasurer* (September 2023-April 2025)**: In charge of organizing club dues and t-shirt payments for all members and ensuring that there are enough funds for any STEAM symposiums.
2. **Latin Club - *Communications Coordinator/Senator* (August 2023-April 2025)**: In charge of creating a new website for Latin Club, updating it on regular intervals and sending monthly emails with latest updates.
3. **Smart Minds Tutoring - *Finance Chair* (January 2023-April 2025)**: In charge of applying for grant money from larger corporations needed to run the Non-Profit and tutored AP Calculus to a group of students free of charge in summer.
4. **K9 Dog Training Corps – *Officer* (August 2021-April 2025)**: In charge of planning the training site for bloodhounds and setting up location trails to find the target which eventually leads to collecting data to assist in criminal court cases.