Akash G. Singhal

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Objective

Computer Engineering major with thorough leadership experience, and a passion for robotics and automotives. Versatile and capable of working in a variety of environments, designing and programming for efficiency, and working with teams from a variety of backgrounds in order to go above and beyond projects. Successful on the world stage for competition robotics as team captain. Seeking an internship in the robotics or automotive industry for Summer of 2026.

Education

Georgia Institute of Technology | Atlanta, GA *August 2025 – Present*
Bachelor of Science in Computer Engineering Expected Graduation, May 2029

Skills

Programming: Java, Python, and C#,
Platforms: Canva, Google Workspace
Hardware: Electronic Systems (ISCET Certified), Fiber Optics (Certified), Raspberry Pi, Rev Control Hub, GoBilda Ecosystem,
Software: SolidWorks (CSWA Certified), Onshape, OpenCV, GitHub, Bambu Studio,
Professional Organizations: National Honor Society, FTC Robotics, Student Government Association, HyTech Racing
Communication: Design proposals, presentations (large and small audiences), email organization

Experience

Trigon Cyber | Huntsville, Alabama *August – December 2024*
Artificial Intelligence Intern
Small research and development company working closely with different government and department of defense agencies.

- Worked with a team on a government contracting project involving AI and Systems Engineering software.
- Lead company wide presentation on outcome of the project as well as current impact and future steps.

Leadership or Activities

First Tech Challenge Robotics | Programming Lead → Co-Captain → Captain *August 2019 – May 2025*

- Learned Computer-Aided Design (Onshape, Solidworks) and Object Oriented Programming (Java) along with AI Machine Learning for Image Recognition (OpenCV, and Google Toolchain)
- Managed multiple robotics teams with over 40 members to design, build, program, and market competition robots.
- Advanced to the World Championship where we made connections with global companies
- Performed outreach in order to help local communities through robotics (spoke , worked on gardening robot)

Student Government Association| President *August 2018 – May 2025*

- Spearheaded effort to support under-funded clubs at my school by founding club-grant program
- Stayed in close communication with admin, students, and other faculty using email chains, presentations, and marketing.

Projects

3D Print Makerspace | Engineering *Semester 2025*
Lead
Founded in-school makerspace to increase accessibility to 3d printing and Computer-Aided Design to high-school students

- Educated 50+ students on 3d printing and helped them to start their CAD journey.
- Designed and produced at scale custom products (keychains, fidgets) for the school to sell in order to raise funding.
- Trained fellow students in order to increase our operation from a single class to the whole school.

Relevant Coursework

Electronics Engineering (Highschool)**:** Analyzed common electrical systems and learned the unique components as well as construction and safety for these systems. Lead to ISCET certification for electronics
Engineering & Manufacturing (Highschool): Developed Cad Skills on industry used parts and systems to earn CSWA certification
Object Oriented Programming (Highschool): Worked on programming skills in multiple languages with a focus on C++ and C#
Python Plus (Highschool): Learned python libraries in order to handle large amounts of data.