Yousuf Siddiqui

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EDUCATION

Raleigh Charter High School

August 2022 - Present

Senior, graduating in the summer of 2026.

EXPERIENCE

First Tech Challenge — ITKAN IAR 21836

2023 - Present

A worldwide robotics competition where high school students design and program complex robots to compete in a new challenge every year.

- NC State champions 2024/25
- Advanced to the World Championship in Houston, placed 4th in our division, and in the top 16 overall worldwide
- Co-Captain, software, strategy, and logistics leads
- State record 2 years in a row
- Won several awards over the two years

Ophthalmic Tech — Glaucoma and Cataract Associates of NC

2023 - Present

- Worked up patients daily as an ophthalmic tech
- Testing and Imaging: Ocular Coherence Tomography, Visual Field, Fundus Photos, etc.

Research Intern — GPCR Research Lab at Duke University (Rajagopal Lab)

Summer 2025 - Present

The Rajagopal lab at Duke studies G protein-coupled receptors (GPCRs) to understand inflammation in vascular disease, particularly using biased agonism and the chemokine system to investigate inflammation models like pulmonary arterial hypertension (PAH).

- Spent time with lab technicians, undergraduates, graduates, and PhD/MD students
- Learned valuable lab techniques, including splitting, cloning, transfecting, transforming, and transducing cells (specifically HEK 293T cells), and pipetting, running BRET and Luciferase assays, running western blots, lab safety, and many more.
- Helped work on groundbreaking research regarding condensate formation and its role in cell signaling.

ACADEMICS

Weighted GPA - 4.5526

Unweighted GPA - 4.0

SKILLS

Software — Java, HTML, CSS, JavaScript

3D Design — 3D Modeling in Onshape

Graphic Design — Canva

Spreadsheets - Microsoft Excel and Google Sheets

SPORTS

Track — Varsity

2022 - 2024

Ran mid and long distances, 800m and 1600m

Basketball — Varsity

2023 - Present

Play as a point guard or shooting guard

CLUBS & ACTIVITIES

Student Government — Class President + Rep

2022 - Present

Served on student government, leading, planning, and organizing several events, including Prom, Charity Basketball, Volley Y'all, Candygrams, Paper Recycling, etc.

Honor Committee and Honor Council

2022 - Present

Served on a committee that works to uphold honor within the school. Helped plan events like honor awareness week and midterm review sessions.

- A part of the Honor Council (11th and 12th) - holds honor hearings to help resolve honor violations.

Cultural Fair Lead

2024 - Present

Helped establish and plan a new event for students to showcase their culture. Created advertising video, organized presenter logistics, and more.

Muslim Student Association - President

2023 - Present

Have served as president of the MSA, providing a space for muslims to express their faith. Have planned several events (including interfaith discussions, guest speakers, ice cream socials, Ramadan Iftar), led prayers and sermons, and designed custom hoodies for the MSA.

Two Steps Tutoring

2023 - Present

Helped tutor kids from Title I elementary schools weekly.

Peer Mentor

2024 - Present

Helped acclimate new students to the school by running events and leading activities in advisory.

Lunch Sales

2022 - Present

Sold lunch once a week (Moes, Papa John's, and Chick-fil-A), running the cashbox.

Robotics Mentoring

2023 - Present

Mentor FLL and FTC teams both locally and nationally, answering any of their questions regarding software, hardware, or logistics through Discord calls and messages.

Key Club

2022 - Present

Volunteered at several events. (eg. Hurricane Drive)

Meals for Needy - Oak City Cares

2022 - 2024

Prepared and served meals to needy people

SAT Tutor

2025 - Present

Nominated to run bootcamps through CollegeBoard, Schoolhouse, and Khan Academy

National Honor Society

2025 - Present

Nominated to be a part of the National Honor Society. An organization that recognizes high school students for excellence in Scholarship, Leadership, Service, and Character. Will participate in several volunteer events later on this year.

Junior Marshal

2025

Nominated to participate as a junior marshal, where I helped organize and run Senior graduation.

Pre-Calc Club

2023

Nominated by my Math 3 teacher to participate in PreCalculus club. Through this club, which met twice a week, I was able to pass the class with an A and move on to Calculus AB in my Junior year.

Eyeglasses Project

2023 - Present

Started as an APES final project, I am now in the process of expanding and potentially filing for nonprofit status. The project aims to collect eyeglasses through drives and donation boxes and donate them to an eye hospital in Pakistan, which I was able to visit and see their life-changing work, which sees two-thirds of its patients for free.

- So far, I have run multiple drives collecting eyeglasses, recycling broken ones, and sending prescription-labeled glasses tagged with an ID corresponding to a website.
- I have been able to collect over 100 pairs of glasses from two separate locations.