

Rohan Nagale

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EDUCATION

Lyons Township High School, La Grange, IL

Aug 2022 – To Date

- **GPA:** 5.45 (Weighted), 4.0 (Unweighted) | **ACT:** 36 (36E; 36R; 36M; 35S)
- **AP Scores:** AP Human Geography (5), AP U.S. Government (5), AP U.S. History (5), AP Lang. & Comp (5), AP Comp Sci Principles (5), AP Comp Sci A (5), AP Physics 1 (5), AP Calculus BC (5), AP Env Sci (4)
- **School Clubs/Societies:** Robotics Team (Captain), BPA (Outreach Director), Varsity Tennis Team (Captain), Student Representative to the Board of Education (1 of 2 representing 4,000 students), Math Team
- **Honors:** National Merit Commended Student, National School Recognition Award, High Honors (Dean's List), AP Scholar with Distinction, National Honor Society, BPA Nationals Qualifier, Robotics State Qualifier, Math Team State Qualifier, Varsity Tennis State Qualifier, Argonne Exemplary Student Researcher

CAREER EXPLORATION

Student Makers | *Executive Director*

Jan 2021 – To Date

- Lead Instructor of 3D Printing; Initiated Python, Physics, and Financial Literacy workshops, oversaw 10+ volunteers
- Delivered classes to 1200+ middle school and high school students, managed \$12,000+
- Designed curriculum for 3D printing, including 100+ slides & video demos
- Donated 3D printers to Kenyan and rural Indian Schools; Met with school teachers to educate on hardware/software
- Distributed & manufactured 150 airplane model kits/toys for KRA orphans

Floe, Inc | *Product Engineering Intern*

Jun 2025 – To Date

- Designed and developed 10 3D CAD models from vector graphics to support installer training materials
- Engineered a recurring email automation service for the technical team using AWS SES and S3; streamlined system notifications and data sharing for weather data to 20+ zip codes
- Conducted research and prototyping for implementing web-based map annotation features
- Researched installer training methods for climate-tech deicing devices

3-D Printed Pediatric Head Shape Circumference Gauge | *Founder*

May 2025 – To Date

- Designed tool to streamline infant-head measuring through Fusion 360
- 3D printed, and distributed over 20 new circumference gauges, reaching 30+ patients
- Outreached to 4+ clinics, and currently testing by 10+ clinicians; Reduced measurement margin of error by 90%

Algoverse | *LLM Robotics Project Lead Researcher*

Jun 2025 – Oct 2025

- Lead Authored: COMPASS: Context-Modulated PID Attention Steering System for Hallucination Mitigation
- Developed a dynamic mitigation solution for LLM hallucinations using a robotics PID feedback loop
- Collaborated with Nvidia, Harvard, Georgia Tech, and U.C. Berkeley researchers
- Published in arXiv, pending submission to top LLM-eval workshops (NeurIPS, ICLR, AACL, EACL, UPenn)

LEADERSHIP HIGHLIGHTS

Robotics Team | *Lead Builder & Coder, Captain*

Aug 2023 – To Date

- Received numerous design awards in 2024/2025, qualified for state 2025, and Top 20 State “High Stakes Skills”
- Initiated VEXIQ Robotics program to McClure Middle School in 2025 and ran chapter of 10+ members; Mentored students in MechE, Computer Science, and Strategy

Business Professionals of America | *Outreach Director*

Aug 2024 – To Date

- Launched fundraising committee of 20 members, Outreached an additional recruitment of 15+
- 4th Place state finish 2025 Financial Analyst Team, Top 5 state finish 2025 SQL Database Fundamentals
- 2025 Nationals Qualifier; top 60 Fin. Math, I.T., Comp. Prog at National Leadership Conference

Westchester Food Pantry | *Junior Board Vice President*

Jan 2022 – To Date

- Organized 10+ events for 500+ attendees and raised \$5000+ through fundraising and board-led programs

SKILLS & INTERESTS

SKILLS: CAD (Fusion), Workshop (3D Printing), Graphic/Web Design (Adobe CC, Wordpress), Coding (Java, Python)

Interests: Robotics, 3D Printing, DIY Projects, Tennis, Golf, Downhill Skiing, DJing, Piano, Science Fiction Novels