

Nikhil Vijay

Address:

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Rising Senior - Academy of Math, Science, and Engineering

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Objective Summary

To work within technology in order to help develop the immensely important tech-based aspects of a company, so that my skills can be applied in the most beneficial way possible.

Education/Accomplishments:

Academic Activities

- **The Academy for Mathematics, Sciences, and Engineering** - Started September 2020, Graduation June 2024. AMSE is a vocational program which accepts on a merit-basis in order to provide a thorough education focused on engineering.
- **Clubs/Competitions** - Modern Physics (Yale Physics Olympics 3rd Overall), Robotics (FTC - District Think/Engineering Documentation Award), Competitive Math, DECA (National Competitor in Marketing), Tech Honors
- **AP Classes:** Biology, Chemistry, Calculus BC, Physics 1, CSP, CSA, Lang, APUSH

Prior Work

- **MakerLessons Internship** - 2023-Present, Web developer, creating engineering documentation/tutorials, helping consultation with partnered school districts
- **Kumon Grader** - June to October 2021, Grading and correcting papers, organizing, and tutoring children

Non-Academic Activities + Community Service

- **Track and Field, Varsity** - 2020-Present
- **St. Hubert's Animal Shelter** - 2022-Present, Weekly volunteering and fundraising on Youth Task Force
- **SEWA International** - 2020-2021, Food drives, reservoir/street cleanups, other community service, with over one hundred hours of volunteering

Skills

- **Robotics/Mechanics** - Projects include: cycloidal actuator generator created with Desmos API and Fusion 360, 6DOF robotic arm, novel refreshable braille display, electronic steering wheel, etc.
- **CAD/CAM:** Experience with Fusion 360, Onshape, AutoCAD, Illustrator, and CNC machinery
- **Programming and Web Design** - Experience in web design through HTML, JS (and ReactJS + 3JS), CSS, as well as within other languages such as Java, C#, C++. and Python and a solid understanding of general programming principles and ideas. Additionally, I am interested in algorithms and competitive programming.