Ankur Raghavan   **ankurraghavan.com**

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Education	**Purdue University, West Lafayette, IN** **(Aug 2024 - May 2027)**

- Major in Mechanical Engineering Expected - GPA: 3.82

Bethpage High School, Bethpage, NY **(2020 - 2024)**
- Advanced Regents Diploma

Leadership Experience

Board Member, Games For Seva (2020 - Present)
- Led development of a virtual escape room, raising $1,000 for Sai Aashirwad Hospital.
- Designed, playtested, published an original game and promoted it to 200+ players.

VP of Engineering and Programming, Regal Eagles Robotics Team (2020 - 2024)
- Guided 40+ students through programming concepts, facilitated hands-on sessions, assessed progress, and fostered collaborative learning.
- Created processes for team volunteering events, completing over 1000 volunteer hours.
- Promoted STEM education through 'Engineers Helping Engineers' initiative and showcasing robot at key events including STEM Nights and Long Island Maker Faire.
- Guided team to World Championships for four consecutive years.

Professional Experience

Stage Hand, Elliot Hall of Music, Purdue University (2024 - Present)
- Load and unload trucks with equipment, ensuring everything is safely stored.
- Setup equipment at 15+ events including touring shows.

IT Student Assistant, Bethpage Union Free School District (2021 - Present)
- Supported IT Department in preparation for upcoming school year.
- Managed cleaning and reissuing of 500+ Chromebooks for incoming students.
- Resolved various technical issues arising during summer period.

Projects

Disconnectable Steering Wheel, Creating Accesible Racing, Purdue EPICS (2024)
- Designed and Created a Safety Killswitch to allow reserve driver to ergonomically disable child driver's control, while ensuring that the design can be removed quickly
- Manufactured 2 prototype wheels for the 2024 Ford Wilson Race of Champions
- Iterated on material choices for the magnetic surface of the wheel based on corrosion testing

Lunar Rover, Software, Purdue Lunabotics (2024 - Present)
- Developed UWB trilateration algorithms for localization.
- Implemented and optimized mutli-camera visual localization and object detection.
- Converted codebase to ROS 2, ensuring that any extraneous code is removed.

Wireless Sensor to Reduce Water Consumption (2023 - 2024)
- Developed a wireless communication array of sensors and base stations that can automatically detect, transmit, and act on the water content of the soil in farms.

Awards

- Gold, President's Volunteer Service Award, Games for Seva (2021, 2022, 2023, 2024)
- National Merit Scholar, National Merit Scholarship (2023)
- Top 300 Scholar, Regeneron Science Talent Search, Science Research (2024)

Certifications

- Red Cross - Lifeguarding with CPR/AED for Professional Rescuers and First Aid (2024)
- SolidEdge Mechanical Associate (2023)