

Ankur Raghavan

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Education	Purdue University, West Lafayette, IN (Aug 2024 - May 2027) <ul style="list-style-type: none">BSME in Mechanical Engineering Expected - GPA: 3.82Minor in Computer Science
Skills	CAD: SolidWorks, Siemens NX, OnShape, Autodesk Inventor, Reading Drawings, GD&T Programming: Python, Java, C++, NI LabView, MatLab, Web Dev, OOP, Scripting Project Management: Git, Teams, Slack, Trello, Microsoft Office
Relevant Coursework	Graphical Communication and Spatial Analysis - CAD Standards + Engineering Drawings Basic Mechanics I - Analysis of Systems in Static Equilibrium Problem Solving & Object Oriented Programming - Programming in Java + Best Practices
Leadership Experience	Board Member, Games For Seva (2020 - Present) <ul style="list-style-type: none">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) <ul style="list-style-type: none">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) <ul style="list-style-type: none">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) <ul style="list-style-type: none">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 Accessible Racing, Purdue EPICS (2024) <ul style="list-style-type: none">Designed and Created a Safety Killswitch to allow reserve driver to ergonomically disable child driver's control, while ensuring that the design can be installed quickly.Iterated on material choices for the magnetic surface of the wheel based on corrosion testing. Lunar Rover, Software, Purdue Lunabotics (2024 - Present) <ul style="list-style-type: none">Developed UWB trilateration algorithms for localization.Implemented and optimized multi-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) <ul style="list-style-type: none">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	<ul style="list-style-type: none">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	<ul style="list-style-type: none">Red Cross - Lifeguarding with CPR/AED for Professional Rescuers and First Aid (2024)SolidEdge Mechanical Associate (2023)