

# Ankur Raghavan

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## Education

### Purdue University - Main Campus, West Lafayette, IN

(Aug 2024 - May 2028)

- Bachelor of Science in Mechanical Engineering | GPA: 3.88
- Minors: Computer Science; Theater Design & Production

## Skills

**CAD:** SolidWorks, Siemens NX, OnShape, Autodesk Inventor, Autodesk Fusion 360, GD&T

**Programming:** Python, Java, C, C++, NI LabVIEW, MATLAB, Web Development, PLC

**Project Management:** Git, Teams, Slack, Trello, Microsoft Office, Lean Principles

## Relevant Coursework

**Engineering:** Statics, Dynamics, Graphical Communication, Manufacturing for Design

**Programming:** Object-Oriented Programming, Programming in C, Data Science

**Robotics:** Electrical Engineering Fundamentals, Control Systems for the Stage

## Leadership Experience

### Purdue Lunabotics

West Lafayette, IN  
(Aug 2024 - Present)

- Software Co-Lead*
- Developed a lunar rover that could traverse an obstacle zone, excavate regolith, and deposit in a precise location autonomously, winning 1st place in autonomy in the 2025 competition.
  - Provide feedback and input to mechanical design teams during design reviews.
  - Implemented and optimized multi-sensor localization and object detection.
  - Fused the output of three different obstacle detection methods, including AI-based approaches, to ensure that no obstacles are missed.
  - Mentored 40+ team members to build industry-level skills in robotics.

### Live Events and Productions at Purdue

West Lafayette, IN  
(Jan 2025 - Present)

- External Events Committee Co-Chair*
- Plan concerts that give 50+ students hands-on experience with audio, lighting, and video.
  - Work with 20+ bands, DJs, and photographers to showcase exciting artists in concert.
  - Coordinated logistics for six large-scale events, leading to an attendance increase of 50%.
  - Collaborate with three student orgs to bring bigger artists and more bands to our stages.

### Regal Eagles Robotics, FIRST Robotics Competition Team #2869

Bethpage, NY

*VP of Engineering and Programming*

(Sept 2020 - June 2024)

- Guided 40+ students in engineering concepts and developed processes for consistent output.
- Promoted STEM education through showcasing robots at key events, including STEM Nights and Long Island Maker Faire, and volunteering for over 1,000 combined hours.

## Professional Experience

### Pacific Gas & Electric Company

Oakland, CA

*Gas Engineering Rotational Development Program Intern*

(June - Aug 2025)

- Perform root cause analysis on corrosion within 20 natural gas transmission pipelines by utilizing historical data, surveys, project installations, and excavation reports.
- Geolocate historical data sources from 1960 to 2010 for easier analysis.
- Surveyed abnormally problematic areas to determine if systematic issues are present.
- Utilize Lean operating principles to ensure efficiency and reduce waste for the customers.

### Hall of Music Productions, Purdue University

West Lafayette, IN

*Event Technician*

(Sept 2024 - Present)

- Ensure a high-quality event experience through skilled audio, lighting, and video setup and performances for guest lectures, meetings with foreign dignitaries, athletic events, and more.
- Guide thousands of guests at events such as Broadway tours, concerts, and commencements.

## Awards

- Coherent II-VI Scholarship

(2025)

- Gold, President's Volunteer Service Award, Games for Seva.

(2021-2024)

- 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)