Anirudh Sarma Kolluru

kollurua@purdue.edu | 925-302-3298 | linkedin.com/in/anirudh-kolluru | web.ics.purdue.edu/~kollurua

Education

Purdue University ~ West Lafayette, IN
B.S Mechanical Engineering ~ 3.57 GPA
Minor Business Economics
Aug 2023 – Dec 2026, Dean's List & Semester Honors

Dougherty Valley High ~ San Ramon, CA
4.62 GPA
Aug 2019 – Jun 2023

Experience

WeeklyJoys Website Admin | Purdue Mechanical Engineering — May 2025 – Present
- Reformed the WeeklyJoys Website, providing free practice exams to over **15000+** Engineering students at no cost, as sole admin

Product Development Intern | Karlyan — May 2025 – Aug 2025
- Designed an end to end mechanical heliostat to bring in natural light into urban sun locked areas without requiring electricity
- Performed cost-benefit analysis to find ways to decrease cost to bring products to rural areas
- Improved indoor illumination by **37%** bringing down electricity costs

Formula SAE | Aerodynamics Sub Team — Aug 2024 – Present
- Utilized Computational Fluid Dynamics **(CFD)** to design and optimize a high-performance rear wing with a CL of **-2.7**
- Conducted virtual tests to determine downforce and drag efficiency on UT(Undertray)

Engineering Intern | ECSite — Jun 2024 – Aug 2024
- Designed a scalable automated UIPath program to manage **1700+** equipment processes
- Optimized program runtime by **20%**
- Led the creation of new proprietary service to scrape data from design software to cloud application

President & Team Captain| Dougherty Valley High School Robotics Club — Feb 2021 – Jun 2023
- Spearheaded **16 officers**, and **50+ people** managing a **501(c)(3)** founding two teams
- Raised **$30,000 dollars**, and revamped system with a new constitution, updated marketing, and financial stability measures.
- Won Worlds Division Champion at the VEX Worlds Competition placing **top 15 internationally**

Projects

RC Airplane| Aerospace Engineering — Jun 2025 – Aug 2025
- Created a new fuselage and airfoil design performing CFD analysis to improve aerodynamics
- Performed controls analyses to ensure stable flight patterns

Motorbike| Mechanical Engineering — May 2024 – Aug 2024
- Installed a 25.4cc leaf blower engine into a Mountain Bike to motorize it
- Learned about the intricacies of automotive design
- CADded and machined clutch and housing for the system

Adaptive Cruise Control| MATLAB — Jan 2024 – May 2024
- Led a team of 3 to analyze, interpret, and make conclusions about tire compounds using data science
- Developed an algorithm to smooth **200k+** noisy error filled data points
- Constructed an acceleration and time constant program to perform data analysis

Skills

Programming
- Java, C++, C, Python, MATLAB
- AWS Cloud Practitioner
- RPA Automation, UIPath
- HTML & CSS

Engineering
- NX, Fusion 360, SolidWorks
- CFD Analysis
- FEA Analysis
- EE Design/Breadboarding

Engineering
- Thermal Design
- Fluid Design
- Controls
- Back End Web Development