

# Danwanth Jeyakumar

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## PROFILE

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- Mechanical Engineering student seeking an internship in mechanical design, testing, and R&D
- Willing to learn, build, and apply new concepts/skills to work while embodying mission of company
- Outstanding communication and presentation skills with experience presenting to industry professionals
- Works well in teams by asking valuable questions, contributing to discussions, and listening
- Applies first principles of design to ask questions about the fundamental truths of the problem

## EDUCATION

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### Purdue University

Bachelor of Science in Mechanical Engineering  
Minor in Finance

**West Lafayette, IN**  
August 2023 – May 2027  
Overall GPA: 3.98/4.00

### Dean's List and Semester Honors

Fall 2023 – Fall 2024

### Relevant Coursework

- Complete: Graphical Communication and Spatial Analysis • Partial Differential Equations • Statics • Thermodynamics I • Sophomore Design
- In Progress: Mechanics of Materials • Dynamics • Linear Circuit Analysis I • ME Undergrad Research I

## RELEVANT EXPERIENCE AND EXTRACURRICULARS

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### Purdue Formula SAE – Suspension Member and Setup System Owner

September 2023 – Present

- Optimizing suspension through vehicle dynamics and tools with other suspension team members
- Designing setup system: setup pad, yaw moment of inertia device, and toe/camber measurement device
- Developing a setup methodology to make quick, valuable changes to suspension
- Utilizing i2 MoTeC Pro and MATLAB to analyze car characteristics based on testing and competition data
- Built a motion study in NX to simulate steering and suspension reactions to accelerations and cornering
- Designing a brake dyno to determine ideal material and geometry for rotor based on thermal results and analysis

### EPICS SCAN – Design Lead, Solar RFID Team

August 2023 – May 2024

- Led a team of 5 to develop a solar-powered RFID unit for pedestrian and bicyclist tracking across Purdue
- Designed custom PCB and battery holder, tolerates weather and temperature conditions
- Developed a testing protocol to determine issues and possible external interferences

## SKILLS

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### Computer/Technical

Siemens NX CAD • SolidWorks • Python • MATLAB • Microsoft Office Suite • GD&T • Ansys FEA

### Equipment

CNC Mill • CNC Lathe • Vertical/Horizontal Band Saw • Manual Mill • Manual Lathe • 3D Printer • Laser Cutter

### Other

Interpersonal Skills • Leadership • Problem Solving • Adaptability • Fast Learner • Receptive • Inquisitive • Creative

### Language

Fluent in English and Tamil