Soumil Iyer

(765) 694-9635 | iyer144@purdue.edu | https://www.linkedin.com/in/soumil-iyer

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➤ **Education:**

West Lafayette, Indiana, U.S.A.:
- Purdue University: Junior in Mechanical Engineering – BSE   **August 2022 – Present**

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➤ **Honors and Awards:**

- Dean's List for Fall 2022, Spring 2023, and Fall 2023, and Spring 2024.

- Semester Honors for Fall 2022, Spring 2023, and Fall 2023.

- Received a $1400 scholarship from the Purdue Mechanical Engineering Department for the 2023-2024 academic year.

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➤ **Activities and Experience:**

- M.E. Undergraduate Research Assistant – Energy Storage Analytics   **August 2024 – Present**
Currently a Research Assistant for the Mechanical Engineering department under Professor Mukherjee working on data analysis of experimental and simulated Li-ion battery performance data using Python.

- Undergraduate Teaching Assistant (ME 200 – Thermodynamics I)   **August 2024 – Present**
Currently an Undergraduate Teaching Assistant for ME 200 at Purdue University where I conduct office hours to clarify students' doubts regarding concepts taught in class, I grade assignments, and I proctor exams.

- Undergraduate Teaching Assistant (ENGR 131 – Transforming Ideas to Innovation)   **August 2024 – Present**
Currently an Undergraduate Peer Teacher (Teaching Assistant) for ENGR 131 at Purdue University where I help students accomplish data analysis tasks efficiently using Microsoft Excel and Python, and grade assignments.

- EBEC: Entry-Level Programming in Python (Certificate Course)   **January 2023 – April 2023**
Worked on 4-6 small coding projects each week. Every piece of code was different and performed a different task, varying from mathematical tasks to data analysis to mini-games.

- Programming with Arduino (Certificate Course)   **January 2023 – February 2023**
Worked on four projects that involved building the Arduino circuit on a breadboard and programming it to respond to various stimuli.

- Learning Community: Engineering in the World of Data (Participant)   **August 2022 – May 2023**
Was accepted into a learning cohort focused on Data Science in Engineering. Participated in regular meetings, social events, career presentations throughout the year, and authored a Data Management Plan.

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➤ **Projects:**

- Mechanical Engineering Sophomore Design Project - Foldable Hanger: Collaborated with a team of four and designed a foldable, travel-friendly hanger. We conducted market research and decided that our goal was to design a lightweight, portable, and durable folding hanger that can easily fit into clothes, even ones with tight necklines, without stretching them permanently. The team 3D-printed the final design of each individual part and successfully assembled the prototype.

- Designing, modeling and 3D printing a keychain: As a personal project, I created an original keychain design featuring a miniature cricket bat and ball. Initially, I developed the design concept on paper, translating it into a detailed CAD model using Siemens NX. I proceeded to successfully 3D-print the final model.

- Little Blazer Engine Modeling and Assembly on Siemens NX: As part of the CGT 16300 class at Purdue during the spring 2023 semester, I worked on a multi-week final project where I modeled all parts of the Little Blazer Engine on Siemens NX and then assembled them to create a working digital assembly of the engine.

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➤ **Skills:**

- Professional skills: Siemens NX, 3D printing, Finite Element Analysis, MATLAB programming language, Python programming language, C programming language, Arduino IDE, Google G-Suite, Microsoft Office, Basic video editing.

- Language skills: Native/bilingual proficiency in English, Hindi, and Marathi. Limited working proficiency in German.