# Rushil Shah

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## EDUCATION

**Purdue University – College of Engineering,** West Lafayette, IN **Graduation: May 2025**
*Major: B.S. Computer Engineering - GPA: 3.2*
*Honors/Awards: Dean's List | Semester Honors*

## WORK EXPERIENCE

**Molex**, Chicago, IL **May 2024-August 2024**
*ASE Engineering Intern*

- Optimized firmware communication for CoreSync devices using Python and C, reducing corporate costs from $300 to $45 per device, and allowed for reduction of firmware upgrade times by over 20%.
- Delivered a comprehensive presentation for RevRobotics engineers, detailing comparison of Molex products with competitors. Gained understanding of Molex components, their specifications, market positioning, and contributed to market development and long-term profitable growth.
- Participated in seventeen one-on-one meetings and knowledge-sharing sessions to deepen understanding of Molex, electrical connectors, standard industry practices, and understand the Field Application Engineering role.
- Worked extensively with the Connected Enterprise Division gaining a understand of PCB & hardware design.

**Stellantis/Fiat Chrysler Automobiles,** Auburn Hills, MI **May 2023-August 2023**
*Engineering Intern*

- Optimized route generation with Python by over 30% by using data-science tools like linear regression and circle-fitting allowing simulated vehicles to travel more efficiently.
- Created six hardware interfacing scripts interacting with GPS devices and relay boards laying the groundwork for future automation in CANoe and simplifying the workload on engineers.
- Improved automated regression methods in vehicle infotainment systems by interfacing with vehicle's CAN bus network and ECU, preforming reverse image detection, and HMI scripting.
- Worked on the Software-X(SWX) team developing testing methods for AI in self-driving vehicles.

**Genuine Parts Company,** Atlanta, GA **May 2022-August 2022**
*Software Engineering Intern*

- Pioneered the development of an Android application using Java and Kotlin for the purpose of supply chain management, loss-prevention, and inventory control.
- Developed understanding of Google Cloud Platform by deploying two Google Cloud Functions extracting data from XML documents and generating new simplified documents with Google Storage Buckets.
- Gained understanding of NoSQL databases Google Firestore/Firebase integrating with mobile applications.

**University Research Assistant,** West Lafayette, IN **February 2023-April 2023**

- Aided a professor of Engineering 103 in research related to the applications of data science.
- Reviewed and evaluated student assignments in 'Engineering Problems with Application in Data Science'.

## LEADERSHIP

**American Society of Mechanical Engineers** **August 2021-Present**
*Electrical Lead*

- Worked on the Electrical/Computer Engineering team to design, evaluate, build, and test the circuitry and code on microcontrollers of projects designed by ASME Small-Projects.
- Developed C++ code for an Arduino Board, enabling control of motor power, steering, and ballast for submersion, underwater maneuverability, and buoyancy adjustments.

## PROJECTS

**Boilergrams**
*Hackathon Winning Application – BoilerMake IX*

- Won the award "Most Creative Use of Redis Cloud" at BoilerMake Hackathon hosted by Purdue University.
- Created a website using HTML/CSS with backend written in PHP and hosted on Amazon Web Services.

**Hobbies**: Purdue Sailing Club, Gym, Tennis, Bouldering/Rock Climbing, Cooking