

# Rushil Shah

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## EDUCATION

**Purdue University – College of Engineering**, West Lafayette, IN

**Graduation: May 2025**

*Major: B.S. Computer Engineering - GPA: 3.22*

*Honors/Awards: Dean's List | Semester Honors*

## WORK EXPERIENCE

**Stellantis/Fiat Chrysler Automobiles**

**May 2023-August 2023**

*Engineering Intern*

- ☐ Worked on the Software-X Team developing testing methods for AI in self-driving vehicles.
- ☐ Improved automated regression methods for Maserati infotainment systems by interfacing with vehicle's CAN bus network, reverse image detection, and HMI scripting.
- ☐ 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.

**Genuine Parts Company**

**May 2022-August 2022**

*Software Engineering Intern*

- ☐ Pioneered the development of an Android application using Java and Kotlin.
- ☐ Utilized Google Cloud Function/Google Firestore to manage inventory at NAPA store locations.
- ☐ Developed offline-persistent-sync capabilities to an android app using KMM and Dart.
- ☐ Deployed two Google Cloud Functions designed to place XML documents into Google Firebase.

## LEADERSHIP

**American Society of Mechanical Engineers**

**August 2021-Present**

*Electrical Team*

- ☐ 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
- ☐ Coordinated with other engineering teams to determine the criteria and constraints.

**Walton Robotics**

**August 2017-May 2021**

*Chairman's Coach*

- ☐ Earned multiple awards attending regional, state and world FIRST Robotics competitions.
- ☐ Co-wrote a published book that included infographics and data visualizations.
- ☐ Drafted and gave yearly presentations outlining overall strategy at each competition.

## PROJECTS

**Engineering in the World of Data**

*University Research Assistant – Purdue University*

- ☐ Aided Dr. Michael Witt in research related to the applications of data science.
- ☐ Reviewed and evaluated student assignments in 'Engineering Problems with Application in Data Science'.

**Remote Controlled Submarine**

- ☐ Developed C++ code for an Arduino Board, enabling control of motor power, steering, and ballast for submersion, underwater maneuverability, and buoyancy adjustments.

**Automated Video Generator**

- ☐ Developed a Python script that automates the generation of multimedia content by fetching data from Reddit, converting text to speech, creating images, and combining them into videos.
- ☐ Managed the content generation pipeline, from data retrieval to final video upload, and troubleshooting and handling exceptions effectively, ensuring consistent and reliable script performance.

**Skills:** Python, C, C++, C#, CAPL, Rust, Java, Java-Script, Swift, Kotlin, Verilog, AutoCAD/Inventor, Figma, Tableau