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