Shaunak M. Sarlashkar

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EDUCATION

Purdue University   **West Lafayette, Indiana**
B.S. in Computer Engineering   *Expected Graduation, May 2026*
- **GPA:** 3.93/4.00, *Dean's List*
- **Concentrations:** *Microelectronics & Semiconductors, Artificial Intelligence & Machine Learning*
- **Related Coursework:** Data Structures, Advanced C programming, Python For Data Science, Introduction to Digital Design, Electrical Engineering Fundamentals 1, Linear Algebra, Multivariate Calculus

EXPERIENCE

Purdue VIP Beyond 5G   **West Lafayette, Indiana**
Undergraduate Researcher   *Aug 2024 – Present*
- Prototyping and evaluating various technologies that could be used in the next generation wireless communication systems. Specifically, Ultra-Reliable Low-Latency Communication (URLLC)
- The focus of URLLC will be the backbone of future applications like autonomous vehicle control, drone autopilot, among other things

EPICS Imagination Station (IS)   **West Lafayette, Indiana**
Software & Electronics Design Lead   *Jan 2024 – Present*
- Leading a team in developing and implementing software and electronic solutions for a Mars rover enclosure to deliver to Imagination Station, a science center for kids in Lafayette, Indiana
- Collaborating with a multidisciplinary team to integrate electronics and computer hardware components into the rover control console. Utilizing the Python programming language to create and maintain a graphical user interface (GUI) for the Mars rover control console

EPICS GreenCampus   **West Lafayette, Indiana**
Mechanical Specialist   *Aug 2023 – Dec 2023*
- Worked on the design of a self-irrigating greenwall to be used in educational spaces

PROJECTS

Python Audio Converter   **West Lafayette, Indiana**
Class/Personal Project   *Nov 2023 – Dec 2023*
- Developed a Python audio converter application utilizing the NumPy, PyAudio, Wave, and Matplotlib libraries
- Implemented functionality to import wav files into the program for processing
- Utilized PyAudio to interact with computer hardware, enabling playback of audio files directly through the program
- Employed NumPy arrays to represent the audio data

ACTIVITIES

ML@Purdue   **West Lafayette, Indiana**
ML Hackathon Board   *Aug 2024 – Present*
- Working on a team project to create a hackathon leaderboard that integrates testing without leaking data
- Implementing and expanding my knowledge of ML and different Python libraries

Purdue IEEE   **West Lafayette, Indiana**
Computer Society   *Jan 2024 – May 2024*
- Worked on a team utilizing the RP2040 microcontroller and CircuitPython to create a micromouse robot that can solve a maze autonomously

SKILLS

Programming: Java, Python, C, C++, MATLAB, SystemVerilog
Hardware: Digital System Design, Arduino
Tools: Vim, IntelliJ, Linux, Unix, Git, GDB, KiCAD, LTSPICE