

Shaunak M. Sarlashkar

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EDUCATION

Purdue University

B.S. in Computer Engineering

West Lafayette, Indiana

Expected Graduation, May 2027

- o GPA: 3.62/4.00
- o **Concentrations:** Artificial Intelligence & Machine Learning, Microelectronics & Semiconductors, Computer Systems
- o **Related Coursework:** Intro to AI, Microprocessor Systems & Interfacing, OOP, Data Structures & Algorithms, Advanced C programming, Python For Data Science, Introduction to Digital System Design, Linear Circuit Analysis

EXPERIENCE

Xerox - Lexmark

Firmware/Embedded Systems Intern

Lexington, Kentucky

May 2025 – Aug 2025

- Benchmarked embedded boards using LMBENCH in a Yocto-based embedded Linux environment to evaluate CPU, memory, and I/O performance
- Improved image tuning framework for halftoning

Purdue VIP Beyond 5G

Undergraduate Researcher

West Lafayette, Indiana

Aug 2024 – Dec 2024

- 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)

Software & Electronics Design Lead

West Lafayette, Indiana

Jan 2024 – Dec 2024

- 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

PROJECTS

STM32 Smart Glasses for Gesture-Control + TinyML (WIP)

Personal Project

West Lafayette, Indiana

Apr 2025 – Present

- Building wearable smart glasses using the STM32F4 microcontroller and MPU6050 IMU for gesture-based controls
- Collecting and processing motion data; training and deploying a TinyML model on-device for real-time gesture classification
- Programming the microcontroller using low-level C and CMSIS libraries for efficient sensor data input

VimDojo: Interacting Vim Learning Website (WIP)

Personal Project

West Lafayette, Indiana

Apr 2025 – Present

- Designing and developing a LeetCode-style interactive site for learning Vim commands and navigation
- Building front end components using React, Next.js

ACTIVITIES

ML@Purdue

ML Hackathon Board

West Lafayette, Indiana

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

SKILLS

Programming: Java, Python, C, C++, MATLAB, SystemVerilog, RISC-V Assembly, PyTorch, Embedded Linux

Hardware: Digital System Design, Arduino, Circuit Analysis, STM32 Micro

Tools: Vim, IntelliJ, Linux, Unix, Git, GDB, KiCAD, LTSPICE