

# Savan Patel

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## Skills

Languages: **Advanced:** C      **Proficient:** C++, Python, Java, HTML/CSS      **Beginner:** JavaScript, Swift (iOS)

Version Control (Git), Linux, Embedded Systems, Data Science, MATLAB/Simulink, Linear Circuit Analysis, Multisim, Quantitative Analysis, Time Management

## Education

### Purdue University | West Lafayette, IN | Bachelor of Science

- Major in Computer Engineering Technology – Anticipated Graduation 05/2025
- On track for **Master's Degree in Electrical and Computer Engineering** - Expected May 2027
- Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Embedded Digital Systems, Python for Data Science, System Development, Computer Architecture
- **Minor in AI/Machine Learning**
- Current GPA: 3.78/4.00, *Dean's List*

## Projects

### Blackjack

*Personal Project*

**West Lafayette, IN**

*Nov 2023 – Dec 2023*

- Developed a Java GUI application by implementing a game algorithm that outlines the realistic features of Blackjack.
- Utilized class relationships by creating a multi-class program that helped better outline the behavior of the UI.
- Enhanced user experience by implementing a more interactive UI with image insertion and menu options.

### Autonomous Car Project

*Team Member*

**West Lafayette, IN**

*Mar 2023 – May 2023*

- Automated an RC car using microcontrollers to change speeds and direction to avoid obstacles.
- Developed a controls algorithm for the Electronic Speed Controller (ESC), Rear Collision Avoidance, Remote IR receiver with the use of various sensors (ultrasonic, LIDAR, etc.)
- Created and maintained a logbook with test plans, hardware design, and system design for robust implementation.

### Crane Project

*Team Member*

**West Lafayette, IN**

*Mar 2023 – May 2023*

- Developed a crane controller by implementing a C algorithm to deliver payloads to specific destinations using ATMEGA2560.
- Total system includes push buttons, ADC, PWM signals, UART, and EEPROM to control stepper and DC motors.
- Utilized EEPROM memory to store ADC and register values to recreate user's previous path.

### Vending Machine Project

*Team Member*

**West Lafayette, IN**

*Oct 2022 – Dec 2022*

- Created a functional vending machine using AHDL to simulate currency and vending options on an FPGA.
- Developed user interface by implementing a Quartus BDF IO system which led to a better user experience.
- Tested segments of application by simulating waveforms to ensure block functionality.

## Experience

### Hobby Lobby | Fairfield, CA | General Floor Staff | 08/2020 – 05/2021

- Provided exceptional customer service by assisting and guiding customers throughout the store.
- Collaborated with team members to restock shelves, manage inventory, and keep the store in great condition.
- Demonstrated strong communication and interpersonal skills in addressing the customer's needs.