

Sachin Patel

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Education

Iowa State University, College of Engineering

- Bachelor of Science in Computer Engineering. Expected May 2024
 - GPA: 4.0/4.0 | Transferred Credit: 17.00 | Honors Student Board: Philanthropy committee.
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Skills

Computer: C, C++, C#, Python, HTML, CSS, JavaScript, Autodesk Inventor and AutoCAD.

Other Languages: Spanish (Speak/Write - Intermediate), Gujarati (Speak - Intermediate).

Activities

ISU Cardinal Space Mining

(Sep 2020 - Present)

- Role: Controls Specialist - work on all software and electrical features.
- Build a mining robot that competes in NASA's RMC: Lunabotics Competition.
- Developed a state diagram of all the robot's processes making it fully autonomous.
- Taught high school students some of the design process it takes to build a moon rover.

Critical Tinkers

(Sep 2020 - Present)

- Create projects like a quadcopter with its horizontal axis controlled by side motors.

ISU Robotics Club

(Sep 2020 - Present)

- Role: Software and Electrical Team.
- Build projects to compete in competitions such as battle-bot and exo-suit competitions.

Rotary Interact

(Sep 2019 - May 2020)

- Helped plan and participate in volunteering activities such as donating/fundraising and food packing.
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Selected Projects

Earth Rover

[Code](#)

- Uses Arduino, Raspberry Pi, Python, HTML, CSS, and C++.
- A webserver controls the rover's multiple features and displays a live feed from the rover's camera.

Space Game

[Code](#) [Project](#)

- Created a space-inspired video game using C# and the Unity Game Engine.

Alt. Snake Game

[Code](#) [Project](#)

- Made an alternate version of the classic snake game using HTML, CSS, and JavaScript.

AI Plays A Game

[Code](#) [Project](#) [Repl](#)

- Developed in Python; an AI, using neuroevolution with NEAT, learns to play a game I made in pygame.
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Employment

Sarpino's Pizzeria | Pizza Maker and Delivery Driver.

(May 2020 - Aug 2020)

- Managed time for the fast-paced environment and operated the restaurant's Point of Sale system.