Sachin Patel

sachpatel1220@gmail.com | Portfolio | LinkedIn | Github

Education

Iowa State University, College of Engineering
- Bachelor of Science in Computer Engineering.   Expected May 2024
- **GPA:** 4.0/4.0 || **Cumulative Credits:** 37.0 || **Honors Student Board**

Software Skills
- C, C++, C#, Python, HTML, CSS, JavaScript, Java
- Object-oriented programming, Algorithms, Circuitry

Activities

ISU Cardinal Space Mining   (Sep 2020 - Present)
- Build a mining robot that competes in NASA's Robotic Mining Competition.
- Leading the development of all software (mainly in **Java**) and electrical features.
- Developed command and subsystem programs that will make the robot fully autonomous.

Critical Tinkers   (Sep 2020 - Present)
- Assembled a quadcopter with the lateral movement controlled by side motors (coded in **C/C++**).

ISU Robotics Club   (Sep 2020 - Present)
- Designed all mechanical and electrical features of a battle-bot and won ISU's battle-bot competition.

Rotary Interact   (Sep 2019 - May 2020)
- Assisted in planning and participated in volunteering activities such as fundraising and food packing.

Selected Projects

Rover   Code
- Engineered a rover that uses Arduino, Raspberry Pi, Python, HTML, CSS, and C++.
- A web server controls the rover's multiple features and displays a live feed from its camera.

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

Alt. Snake Game   Code Project
- Fabricated 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.

Experience

Undergraduate Research Assistant | Iowa State University. Ames, IA   (Jan 2021 - Present)
- Research on building reliable wireless networks. Setting up a testbed to simulate 5G environments.