# SIDHARTH SAJITH

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Passionate Mechatronics, Robotics, and Automation Engineering undergraduate at Saintgits College of Engineering with a strong foundation in C/C++, Python, embedded systems (Arduino, ESP32), CAD, and web technologies. Proven ability to deliver innovative pr ojects, including autonomous robotics, AI - driven game engines, and IoT home automation. Demonstrated leadership (SESA Executive Committee, Class Representative) excelling in fast - paced environments like the Srishti 2025 Innovation Sprint. Seeking an intern ship/entry - level role to contribute to cutting - edge projects in intelligent systems and smart automation. _____

## Education

**Saintgits College of Engineering (Autonomous), Kottayam, Kerala** Invalid Date
Bachelor of Technology (B.Tech) | GPA: 2

## Projects

**ESP32** Invalid Date

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- Developed a smart home system controlled via web UI, gestures, and voice commands; programmed ESP32 for sensor/appliance communication and built a real - time web interface.
- Integrated multiple input modalities, demonstrating innovation in Human - Machine Interaction (HMI) and IoT connectivity.

**Checkmate Royale** Invalid Date

- Algorithms)

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- Designed and implemented a Python - based chess engine with an interactive GUI, featuring core game mechanics, rule enforcement, and turn - based gameplay for user vs. engine or user vs. user.

**Light** Invalid Date

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- Created an autonomous robot to detect and follow light sources using LDR sensors; developed a feedback control loop dynamically adjusting motor speed/direction for real - time tracking.

**-** Invalid Date

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- Led/contributed to rapid prototyping of 4 projects: Smart Fire Alarm, Anti - Sleep Driving Aid, Emotion Detection Algorithm, and Interactive Health Mirror.

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- Demonstrated strong multitasking, rapid problem - solving, and collaborative skills under pressure.

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## Skills

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**Additional Skills:**
Programming: C/C++ (microcontrollers, embedded systems), Python (scripting, algorithms, AI, GUI – Tkinter/Pygame), Hardware & Embedded: Arduino UNO, ESP32, LDR, Temperature, Flame/Smoke Sensors, DC Motors, L298N Driver, I2C, SPI, UART, PWM, Software & Tools: Git, GitHub, Solid Edge (Basic CAD), Web Technologies: HTML, CSS (basic UI for IoT) _____