

Autonomous - Approved by UGC and Anna University, Chennai Approved by AICTE and Affiliated to Anna University, Chennai Accredited by NAAC with 'A++'

Accredited by NBA - (CSE, IT and ECE)
An ISO 9001:2015 and ISO 14001:2015 Certified Institution





ELECTRICAL

The energy used to power the Sentinel Rover's components, including the Node MCU, ESP32-CAM, and motor driver, ensuring seamless operation and real-time surveillance.

MECHANICAL

The energy used by the Sentinel Rover's motors to generate movement, allowing it to navigate different terrains efficiently.

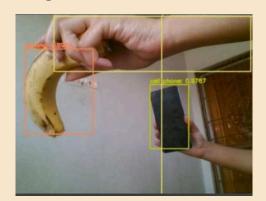


COMMUNICATION

The Sentinel Rover utilizes wireless communication through Wi-Fi, enabling real-time video streaming and remote control

IMAGE PROCESSING

Enhances object detection and real-time analysis



DATA TRANSMISSION

Ensures fast and efficient wireless video streaming.

TEAM MEMBERS

- NISHANTH S
- NIVETHA S
- SOWMIYAS
- SUBAVENI C



DEFENSE TECHNOLOGY

Supports security, reconnaissance, and tactical operations efficiently.