

Satvika Kottapalli

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Profile

Motivated engineering student with a good foundation in Electronics and Communication Engineering, seeking a challenging internship or entry-level role to apply technical skills, contribute to innovative engineering solutions, and further develop professional expertise.

Education

Vishnu Institute of Technology, Bhimavaram Bachelor of Technology, ECE	Grade: 8.97* CGPA 2022-2026
Narayana Junior College, Bhimavaram MPC	Percentage: 96.3% 2020-2022
Pratibha Vidyaniketan School, Vempa SSC	Percentage: 91.1% 2019-2020

Skills

Technical Skills: Python, SQL, C

Tools: Arduino, ESP32, Raspberry Pi 4, MATLAB, PowerBI, Excel

Soft Skills: Adaptability, Teamwork, Time Management

Projects

Object Detection System using ESP32 — ESP32, Servo Motor, Ultrasonic Sensor, Potentiometer

- Developed an object detection system using ESP32, servo motor, and ultrasonic sensor.
- Integrated proximity indicators (LEDs and buzzer) for real-time feedback.
- Activated a red light and buzzer when an object is detected within 10cm.
- Outcome:** Real-time distance feedback for efficient motion control.

Myo-electric Prosthetic Arm — Servo motor, Arduino, EMG sensor

- Designed a myo-electric prosthetic arm controlled by EMG signals to replicate hand movements.
- Utilized Arduino for precise motion control, enabling the arm to lift objects up to 100g.
- Outcome:** Successfully developed a functional prototype with muscle activity-based control for realistic movement.

Smart Writing Pad — RPi4, LCD Display, Camera module, Stylus

- Designed a Smart Writing Pad using RPi4, LCD display, camera module, and stylus to assist SLD students.
- Developed functionality to read question papers and transcribe spoken answers, supporting both math calculations and multiple languages.
- Outcome:** Helped SLD students complete exams more independently, creating a more inclusive learning environment.

Achievements

- Achieved **first** place in an ESP32 workshop with an object position detecting system.
- Finalist in Smart India Hackathon(SIH) 2024.
- Designed and donated an English Text-to-Speech device to visually challenged students in Bhimavaram on World Disability Day, promoting accessibility through assistive technology.

Certificates

- MATLAB, Mathworks
- Embedded Systems, AICTE