RAJUPETA SHAKTHI PRASAD

ELECTRONICS AND COMMUNICATION ENGINEER

shakthiprasad243@gmail.com +91 6302976391 RAMAKUPPAM

Git Hub Link: https://github.com/shakthiprasad243 www.linkedin.com/in/shakthiprasd243

CAREER OBJECTIVE

A highly motivated Electronics and Communication Engineering student with a strong foundation in microprocessors, digital signal processing, and communication networks. Seeking an entry-level opportunity to apply academic knowledge in real-world projects, enhance technical skills, and contribute effectively to organizational growth.

EDUCATION

Jan 2026 (CGPA-8.0/ Till date)

Bachelor of Technology (B.Tech) in Electronics and Communication Engineering,

Jawaharlal Nehru Technological University Anantapur (JNTUA)

Kuppam Engineering College

Jan 2022 (54%)
Intermediate (10+2), S.V. Junior College, Intermediate Board of Andhra Pradesh

Jan 2020 (98%)
Secondary School Certificate (10th Class), Keshava Reddy English Medium High School, Board of Secondary Education, Andhra Pradesh

SKILLS

Programming Languages: Python,C (INTERMEDIATE)

Tools & Platforms: MATLAB

Hardware Skills: 8051 Microcontroller, Linux (basic)

PCB DESIGN

Languages

- Telugu
- English

ACADEMIC PROJECTS

1. **Speech Recognition and Translation System**
   Developed a Python script to perform real-time speech recognition, translation between Indian languages (Telugu, Hindi, Tamil, Kannada, Malayalam, English), and voice output using Google Text-to-Speech.
   - Integrated speech recognition, google trans, and gTTS modules with afplay for macOS audio playback.
2. **Bluetooth-based Safety Tag for Object Tracking**

   Designed a portable safety tag using Bluetooth Low Energy (BLE) technology to track personal belongings and ensure their security. Developed a mobile app interface for real-time location monitoring. Implemented alert notifications when the tracked object moves out of range. Enhanced usability with low power consumption and compact design.

WORKSHOPS/TRAININGS

DSP Lab

- Hands-on experience with MATLAB in performing convolution, filtering, FFT, and signal generation.

Microprocessors Lab

- Interfaced peripherals using 8051 microcontroller and Keil IDE.

INTERNSHIPS

DURATION: May 2025 — Jul 2025
VLSI DESIGN, SkillDzire, Kuppam
Obtained practical experience in simulation, HDL coding, and digital circuit design. Learned timing analysis, logic optimization, and VLSI design methodologies. Improved problem-solving skills in a virtual workplace and gained hands-on experience in circuit verification.
Organized a technical event featuring short films and photo competitions.