




Ruthwik Reddy Sunketa

Professional Title

I'm an electronics and robotics enthusiast with a goal-driven creative mindset and passion for learning and innovating.

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EDUCATION

B.E. Electronics and Communication Engineering

University college of Engineering, Osmania University

07/2019 - Present

Hyderabad, Telangana

XII (Senior Secondary) - MPC

Sri Chaitanya junior College

07/2017 - 05/2019

Hyderabad, Telangana

PERSONAL PROJECTS

Virtual Mouse with MATLAB (05/2022 - Present)

Hand Gesture Controlled Bot (04/2022 - 04/2022)

Memory Game with Arduino (04/2022 - 04/2022)

Rain Sensor Based Cloth Line retriever System
(03/2022 - 03/2022)

Smart Irrigation System with ESP 8266, Soil Moisture & Temperature Sensors (02/2022 - 02/2022)

WORK EXPERIENCE

Intern, Missile Navigation Systems

RCI-DRDO

05/2022 - Present

Hyderabad, India

Achievements/Tasks

- Designed a missile navigation system model with 6 DOF IMU sensor input in MATLAB and C++
- Completed a comparative study on NED and ECEF reference frames
- Created a simulation model of missile with previous inputs

Intern, Embedded Systems

Solar Secure Solutions

04/2022 - 05/2022

Virtual

An organization working on various environmental issues such as solar energy services, water conservation and renewable energy projects

Achievements/Tasks

- Worked on 8051 microcontroller, interfacing with peripheral devices for practical applications.

SKILLS

C Programming

MATLAB

Verilog HDL

Arduino

Embedded Systems

ARM MicroController

ACHIEVEMENTS

First prize in project expo conducted by IETE Hyderabad Section. (02/2022)

Second Prize in Yantra (Robotics Competition- Line Follower) Conducted by ECE Department, OUCE (03/2020)

ORGANIZATIONS

IETE Student Forum (01/2022 - Present)

Chairperson

AAKRUTHI 2022 - College Tech Fest (02/2022 - 05/2022)

Lead, Sponsorship Committee

CERTIFICATES

Object Oriented Programming in C++
(03/2022 - 06/2022)

Codio(Coursera)

An Introduction to Embedded Systems
(01/2022 - 02/2022)

by CISCO ThingQbator

Programming in C (05/2021 - 07/2021)

University of California - Santa Cruz (Coursera)

LANGUAGES

English

Full Professional Proficiency

Telugu

Native or Bilingual Proficiency

Hindi

Professional Working Proficiency

INTERESTS

Novels

Poetry

Blogging

Policy Making