

# SHREYAS SANTOSH SIRSHIKAR

Embedded System Designer | ENTC Engineer | Research Enthusiast

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Pune, India

## SKILLS

Jetson Nano

Raspberry Pi

Arduino IDE

Proteus

IoT

Xilinx

NG-Spice

PCB

Matlab

OpenCV

Multisim

Altium

Keil Microvision

Tkinter

## PROGRAMMING

C

Python

HTML-CSS

C++

Java

Verilog

## SOFT SKILLS

Critical Thinking

Interpersonal Skills

Effective Communication

## PUBLICATIONS

**Golf Swing Shot Recognition Using Dense Optical Flow:** Best Paper Award at IEEE-ICBDS 2023

**Development of Synthetic Elbow Joint for Flexion-Extension Operation - 1Kg Payload:** Presented at the 14th ICCCNT Conference 2023

**Design of SPI to I2C Code Converter Using Verilog:** Presented at VSPICE 2023

## EXAM SCORES

**MHT-CET 2020:** 98.26%  
**CAT 2023:** 97.02%

## EDUCATION

B.Tech (ENTC Engineering) | Vishwakarma Institute of Technology

2024

Pune, India

CGPA: 8.88

Dept. Rank: 9/305

Higher Secondary Certificate Examination | Gujarathi College Sangli

2020

Sangli, India

Aggregate Percentage: 84.46

All India Secondary School Examination | Sanjay Ghodawat International School

2018

Kolhapur, India

Aggregate Percentage: 95.6

## EXPERIENCE

Application Engineer Intern | Millennium Semiconductors India Pvt. Ltd.

July 2023 - December 2023

Pune, India

- Circuit PoC / Research and Development
- Circuit Schematic and PCB Layout
- Embedded Software

**Projects:** Air Cooler, Oil Filled Radiator, TDS Meter, LCD Display Interfacing

## PROJECTS

**Golf Swing Shot Recognition Using Dense Optical Flow:**

Development of a model to recognize the golf swing shot from given video input using optical flow, SIFT, HOG, and random forest classifier

**Development of Electronic System for Recognition of Static and Dynamic Entities:**

Development of a system that identifies the shape, size, height of an object, and the distance of the object from the camera using Computer Vision

**IoT Based Vehicle for Object Detection and Depth Analysis:**

Design and development of an automated vehicle with wireless control, depth perception, and object detection in Python using Raspberry Pi

**Medical Assistance Chatbot Using NLP, ML, and Neural Networks:**

End-user application for medical assistance as a chatbot using NLP, Machine Learning, Neural Networks, and LLMs integrated with front-end using Flask API

## EXTRA-CURRICULAR

**Content Head:**

Vishwakarma Expression Hub (Official Art Club of VIT, Pune)

**Finance Head:**

Game Dev + (Official Game Development Club of VIT, Pune)