

# Shreenandan Sahu

## M.Tech. | IIT Madras

Third Semester, Clinical Engineering.

DOB: 18 03 2002

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## Education

2020-2024

B.TECH., BME

NIT Rourkela

CGPA : 8.74/10

MAY 2019

INTERMEDIATE

Kendriya Vidyalaya No-1 Cuttack

Percentage: 89.0%

MAY 2017

MATRICULATION

Kendriya Vidyalaya No-1 Cuttack

CGPA: 10.0/10.0

## Links

Github:// [shreenandansonu](#)

Leetcode:// [shreenandan-sahu](#)

LinkedIn:// [shreenandan-sahu](#)

## Skills

PROGRAMMING LANGUAGE

C, Python, C++, MATLAB

ELECTRONICS SKILL

PCB design, Simulation, Embedded system, debugging, oscilloscope

SOFTWARE SKILL

CREO, KICAD, ANSYS, LT SPICE, UNITY

## Relevant Courses

Data Structures and Algorithm, Image Processing, Signal Processing, Medical Embedded System, AI-ML-DL Microcontroller and Microprocessor, Computer Architecture, Digital Design, Basic Electronics, Control System, Digital Electronics, Sensors and Instrumentation

## Projects

- 2025-JUNE **EKOBIT: Electronics Stethoscope** [github](#)  
Designed and developed a low-cost electronic stethoscope with dual-microphone adaptive noise cancellation, analog front-end (AFE) filtering, and Python-based real-time signal visualization for heart and lung auscultation.
- 2025-JULY **COHMET: e-PEG board for rehabilitation** [github](#)  
Designed and developed COHMET, a portable rehabilitation device integrating ATmega328P-based custom PCB, Bluetooth communication, and real-time response tracking via an Android app.
- 2024-NOV **Handheld Navigation Controller VR** [github](#)  
Built a Unity-based mobile VR experience with an ATmega328P + HC-05 handheld controller for navigating 3D reconstructions of cultural heritage sites.
- 2024-APR **IR based wearable device for PBM therapy** [github](#)  
Design and developed an IR-based wearable device for affective disorder like depression using PBM principles. This an ATmega328P-based custom PCB device with APP control.

## Achievements/Certifications

- 2021-DEC **HACK4ODISHA (3rd)** [Devpost](#)  
Using 3D modeling developed web app to promote tourism
- 2018-2019 **JNNSMEE (BBSR region)** [Winner](#)  
Developed Arduino based traffic system for easy passage of Emergency vehicle.

## Extra Curricular Activities

- 2020-Now **College Clubs**
- Genesys (secretary | managed collaborative events and done publicity )
  - Codered ( Design head | and lead technical team conducting hackathon )
  - RITVIC (Designer | designed posters for the publicity )
- 2021-Now **Design and Publicity Team**  
I have been leading the design and publicity team of various national and International conferences conducted by our college.  
ICBSEE | ALGOHORCRUX | NBC
- 2017-2019 **Kabaddi**  
I have played Kabaddi ( right corner position ) in regional level (Bbsr) in my Intermediate classes.