

KARTIK LAAD

klaad26101999@gmail.com | +91-7024560203

OBJECTIVE

Seeking internship, for an innovative and research enriched career for the enhancement of technical and communication abilities in order to lead to a contributing success.

EDUCATION

PDPM Indian Institute of Information Technology Design and Manufacturing, Jabalpur
Bachelor of Technology (*completed*) July 2021
Department of Electronics and Communication Engineering Overall GPA: 8/10

RESEARCH INTEREST

RF technology, VLSI design.

TECHNICAL STRENGTHS

Computer Languages	Python, C, HTML
Software & Tools	MATLAB, Proteus, 8085 Microcontroller
Skills	Robotics, Arduino Programming

ACADEMIC ACHIEVEMENTS

- Been qualified for NTSE 2nd stage exam by getting 104th rank out of 15000 candidates

Examination	Board	Percentage/CGPA
Intermediate	CBSE	91
High School	CBSE	10

- Secured GATE score of **650 (AIR 528)** in GATE 2022

POSITION OF RESPONSIBILITY

Help-Desk Member (Tarang'18)	2017-2018
Student Guide	2018-2019

PROJECTS

Underwater Vehicle Design	2018-2019
Faculty in charge	Dr. Harpreet Singh

- Worked on implementation through Bluetooth module
- Bluetooth module, Arduino and GSM module has been used here.

Smart India Hackathon

2019

- Selected for Grand Finale of Software Edition held on 2-3 March.
- Task was to design a web application

ROBOCON India

2019

- Worked on the electronics department of the robotic controls.
- Made a wall alignment robot with mecanum wheels.

Prosthetic Arm

- Project on the creation of EEG based Prosthetic arm.
- MATLAB, Emotiv (Hardware device for EEG data acquisition) has been used in this department.

Game Development on Embedded Platform

- Developed console for arcade game like snake, Tetris, tennis, etc. using 8X8 LED Matrix and Atmega 8/16 microcontroller ICs.
- CVAVR was used for programming and Proteus to design the circuit and simulate the program.

Safety Mechanism for VRUs

2019-2020

Faculty in charge

Dr. Tripti Singh

- Project aims to develop a prototype of a safety mechanism system consisting of an interactive virtual simulation environment interfaced with a screen for control and prevention of accidents from blind-spot of heavy-duty vehicles.
- Effective positioning of ultrasound sensors to cover maximum blind spots and simulation of display with the sensors.

Detection of epileptic seizure using EEG signal

2020-2021

Faculty in charge

Dr. Varun Bajaj

- We have used feature based classification using FAWT and image based classification using CNN
- We have processed a total of 225 signals including seizure and non-seizure in 6 subjects of CHB-MIT dataset.
- The accuracy achieved using the FAWT method is 99.81% and using the CNN method is 97.06%

ACHIEVEMENTS

- Participated in **Circuit Master 2019**, at IIITDMJ.
- Participated in **Electromania, LED Matrix** competition at Techkriti, IIT Kanpur.
- Participated in **E-Yantra**, a competition conducted by IIT Bombay