Rachit Jain

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LinkedIn

EDUCATION

- **Dr. Akhilesh Das Gupta Institute of Technology and Management** New Delhi, India
  Bachelor of Technology - Electrical and Electronics Engineering; GPA: 8.8 *August 2018 - August 2022*
  Courses: *Fundamental Circuit Theory, Analog and Digital Circuits, Microprocessors and Micro controllers, Data Structures*

SKILLS SUMMARY

- **Languages**: Python, C++, Embedded C, Bash, JAVA, Assembly
- **Frameworks**: OpenCV, Matplotlib,Arduino IDE, AVR
- **Tools**: AutoCAD, MATLAB, Simulnk, VS Code
- **Platforms**: Linux, Web, Windows, Arduino, Raspberry pi,Azure
- **Soft Skills**: Leadership, Event Management, Writing, Public Speaking, Time Management

EXPERIENCE

- **Banaao Innovation Lab Pvt. Ltd.** Full Time
  Internet Of Things Developer(Full-time) *May 2020 - July 2020*
  - **ESP32 and RTOS**: Worked on RTOS system in ESP32 Chipset
- **Eruditre LLP.** Full Time
  ardware and IoT Developer *June 2020 - Aug 2020*
  - **Projects done using RFID and Vechile Tracking**: Worked on RFID based attendance System and Vehicle Tracking using GPS
- **Ved World Pvt. Ltd..** Full Time
  Embedded System Intern *Oct 2020 - Nov 2020*
  - **IoT Project**: Responsible for creating IoT Aura Scanner for Astrological Purposes
- **RoboSlog Pvt. Ltd.** Full Time
  Robotics Developer *Jan 2021 - March 2021*
  - **ESP32 Based Project**: Worked on ESP32 Based Heart ECG Devices and ESP32 OTA Facility
- **Elecbits Technologies Pvt. Ltd.** Full Time
  Firmware Design Intern *July 2021 - Oct 2021*
  - **Multithreading in ESP32,AWS**: Working on IoT based solution , Multi threading in ESP32 Chipsets and AWS IoT Core Data Management
- **D'N'D Rodhak (IIT Mandi)** Full Time
  Embedded Systems Developer *March 2021 - July 2021*
  - **Road Safety Project**: Working on Road Safety based project like Alcohol Detection and Drowsiness Detection based systems.
- **Escorts Limited** Full Time
  Research and Development Intern *Oct 2021 - present*
  - **Agri Tech Project**: Working on Agri-Tech IoT Based Applications

PROJECTS

- **Fault Detection System Using Opencv**: The Project was detecting the different shapes , the color and the area of the objects passing on a conveyer belt to detect faulty Objects
- **RFID Based Car Parking System**: The Project was all about providing a automated RFID security enhanced system for vehicles that are parked in the parking areas.
- **Smart Verticle Farming Units**: The Project was creating a smart farming solution , in which set of sensor were used to track the progress of plant growing in the unit
- **Bluetooth speakers using PAM 8403 Amplifier module**: The Project is all about making a Bluetooth speaker in which the wireless signals were converted by PAM 8403 module

PUBLICATIONS

- **Research Paper:Topic - Blind Vision and Theft protection device in Vehicles using Embedded System**: Proposed a solution for theft protection using embedded systems.

ACHIEVEMENTS

- **Winner at IEEE ADGITM Project Design Competition**Created a Modular Oscilloscope and Plotted its graph using Matplotlib library in Python
- **Research Paper Published in IEEE SMARTGENCON confrence 2021** Topic - Blind Vision and Theft protection device in Vehicles using Embedded System.

VOLUNTEER EXPERIENCE

- **Conducted Worshop on Embedded systems and Aurduino** Delhi, India
  Conducted offline technical & soft-skills training impacting over 30 students. *June 2020*