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Anukul Anand

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EDUCATION

Dayanada Sagar College of Engineering

- B.E Electronics & Telecommunication Engineering

DAV Public School, Ranchi

- CBSE, Class 12th

DAV Public School, Ranchi

- CBSE, Class 10th

August 2019 — Present

GPA:9.01/10

2017 — 2019

86.2%

2005 — 2017

CGPA:10/10

SKILLS

Hardware Tools

Oscilloscope, Logic analyser and Signal Generators

Hardware Platforms

Arduino, 8051, AVR, PIC, STM32, ESP32

Technologies

Internet of things, PCB Designing, Hardware Design, Electronics

Tools and Languages

C, C++, Embedded C, Python, Git, Linux CLI

TECHNICAL EXPERIENCE

Embedded Software Developer

Rhino Electronics BV

November 2022 — Present

Brussels, Belgium

- Working on Hardware and Software R&D of EV controllers and Industrial controllers.
- Designing schematics and developing design documentation.

Embedded Software Engineer

BlackBT LLP

July 2021 — Present

Chennai, Tamil Nadu

- Worked on the development and prototype of **World's first Wireless Midi Controller** known as **SusEx Pedal** which was launched this year in the **NAMM Show**.
- Designed the firmware and PCB for the device.
- Made the Proof of Concept of the device.

Hardware Designer

OTS Robotics World

August 2020 — December 2020

Ranchi, Jharkhand

- Worked on the Automatic Sanitizer Dispenser machine for contact-less dispensing of hand sanitizers.
- Used **Atmega328p** and **Atmega8a** by Microchip as the controller for the device and ultrasonic sensor for hand detection.
- Designed the PCB and firmware using Arduino framework for the product.

PROJECTS

LoRaWAN-based Sewage Monitoring and Alerting System

(Ongoing)

- A device which uses LoRa, monitoring the overflow of the sewage and updates to the dashboard in the real-time that has Google map integrated interface and alerts the nearby municipality vehicle.

Environment Monitoring System

- A basic IoT device which is used to monitor Temperature, Humidity and Heat Index of a surrounding area using **Esp32 Cam** and **Thingspeak IoT Server**. [Link](#)

Macro Keys

- This macro keyboard emulates basic shortcut keys using Adafruit's Circuit Python firmware on **Raspberry Pico** which can be configured for any applications such as VS Code, Arduino IDE etc. [Link](#)

Automatic Hand Sanitizer Dispenser

- I worked on contact-less hand disinfection machine designed to nebulize hand sanitizer, gel or alcohol.
- Designed PCB and Firmware for the machine. [Link](#)

ACTIVITIES

Tech Club Lead, IoT - Embedded Systems and Hardware Design, PointBlank

2020 - present

- Point Blank is an interdisciplinary team of programmers that focuses on developing a coding culture in college through participation in competitions such as GSoC and SIH.
- Mentoring students in the field of hardware. I have taken several sessions on Arduino, STM32 etc.
- Teaching about Bare Metal Code for embedded systems, writing and modifying libraries for microcontrollers.
- We organize hackathons and various contests in the College.

School Tech Club Lead, Tech event organizer, Co-ordinator

2017 - 2019

- It was a community which hosted tech events and contests for the senior batch students, emphasizing on programming skills and knowledge.