

AYON KUMAR GHOSH

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EDUCATION

Year	Degree	Institute	CGPA/%
2020 - 2024	B.Tech (ECE)	Vellore Institute of Technology , Vellore	8.13/10 CGPA
2019	12 th CBSE	Army Public School , Nehru Road , lucknow	92.8%
2017	10 th CBSE	Army Public School ,Shillong	10/10 CGPA

INTERNSHIPS

- **Research Intern, IISER BHOPAL** (DEC 2022 - JULY 2023)
 - Worked in the field of Control System .
 - worked in developing control solutions for robotic systems.
 - worked on a project titled “Position control of BLDC motor
 - Designed different control circuits for BLDC motors, implemented some of them from scratch, and presented a comparative study.
- **Research Intern, IIT KANPUR.** (JUN 2023 - OCT2023)
 - Coded Sound mismatch negativity paradigm using Python and Unity .
 - Reading of papers to understand the various experimental designs of mismatch negativity based Experiments
 - build a cognitive paradigm for a project on investigating the principles of cognitive choking in old age and its relationship with dementia. Using Python and Unity.

PROJECTS

- **Gesture Controlled Robot**
 - This project builds a hand gesture controlled robot which basically contained two circuits, a transmitter circuit and a receiver circuit. The hand gestures are converted into electrical signals by the MPU6050 accelerometer sensor, and the Arduino Nano processes the incoming signals and sends it to the RF transmitter. In the receiving end, these signals are received by the RF receiver and sent to the Arduino Uno for decoding. The Arduino Uno, on receiving the signals, actuates the motors via the motor driver. Through this project I have learnt : 1) circuit designing 2) troubleshooting 3) Soldering
- **Smart Bus Ticketing System :**
 - RFID tags have a unique ID or data stored in them.
 - When a tag is scanned by a reader, the reader sends energy to power the tag and receives the transmitted data from the tag.
 - The reader then sends this data to an RFID computer program for interpretation.
 - RFID tags can be categorized as inlays (thin stickers) or hard tags (made of durable materials like plastic or metal).
 - The read range of RFID tags depends on various factors including tag type, reader type, and environmental conditions.
 - The data from the tags can be logged in a spreadsheet or database, along with a timestamp and other relevant information.

- This allows the bus department or system to keep track of the scanned data for ticketing purposes.

POSITION OF RESPONSIBILITIES

- **Senior Core Committee Member - VIT Debate Society**

- Researching on various social events and understanding of various concepts in sociology , economics , international politics and internal politics
- Teach how to build a case and understanding the various aspects involved in a case

- **Senior Core Committee Member - VIT QUIZ CLUB**

- Made quizzes for competitions and conducted QOTM(Quiz of the Month)
- Organising quiz events for the club and organizing quiz based events for club collaboration

COURSES AND CERTIFICATIONS

- Course name: Introduction to C++ [Certificate](#)
- Course name: Signal Processing Onramp [Certihttps](#)

TECHNICAL SKILLS

- Research, Python ,SQL, Excel , Numpy , Pandas , Matplotlib , Matlab , Simulink , Microsoft Powerpoint , Microsoft word , Canva ,C++ , Arduino

EXTRA CURRICULAR ACTIVITIES AND ACHIEVEMENTS

- Cubing , Reading , Quizzing , Debating
- Ranked 1234 in solving a Megaminx in Asia and 2300 in the world. Ranked 110 in India .
- Stood second in solving a 3x3 cube in a competition organized by VIT Cubing Club . Average time taken was 12.56 sec