

Md Ihtisham Asad

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EXPERIENCE

Electro Meter Corporation

Engineering Intern

Jul 2023 - Sep 2023, Kolkata, India

Embedded System Development

- Developed firmware for micro controllers to control hardware peripherals and facilitate server communication.
- Implemented Wi-Fi connectivity and HTTP request handling routines for retrieving sensor data from remote servers up-to 20 meters.
- Collaborated with cross-functional teams to ensure seamless integration and alignment with project goals.

Electrical Panel Design

- Installed temperature control sensors in electrical panel boxes, reducing the risk of overheating by 90 percentage.
- Designed detailed electrical panel drawings in ProfiCAD for the Tashi project, ensuring ease of future work and maintenance.

Celebal Technology

Celebal Campus Executive

Mar 2023 -May 2023 , Jaipur, India

Power BI

- Organised a conference on Data Visualization, drawing participants from over 200+ attendees
- Learned to analysis dataset to identify patterns and insights to visualize on Power BI dashboard

PROJECTS

Medical Image Segmentation

- Developed a deep learning model using TensorFlow/Keras for semantic segmentation of images.
- Achieved high accuracy and IoU scores through rigorous model training and hyperparameter optimization.
- Implemented data preprocessing techniques and augmentation strategies to enhance model performance and generalization.

Radar Navigation System

- Designed and implemented an algorithm for object detection, localization and recolonization
- Integrated hardware component include micro controller , sensor and motor for real time object tracking

Smart Security System

- Develop a user-friendly web interface using HTML and CSS for remote camera control and live video streaming
- Implement secure user authentication mechanisms to ensure authorized access to the system
- Utilize C++ backend and WebSocket communication for real-time interaction, alongside encryption for secure data transmission over the internet.

SUMMARY

Electrical Engineering graduate adept in embedded systems, sensor integration, and electrical panel design. Proficient in Python, C/C++, and MS Office. Ready to contribute to startup success with fresh perspective and client communication expertise.

SKILLS

language	Python, C++
Front End	HTML, CSS,
DBMS	SQL
Tools	Ms Office, Power BI
Soft Skills	Resilience, Attentiveness

EDUCATION

Netaji Subhash **2021-2024**
Engineering

College

Bachelor of Technology - EE

CGPA: 8.34

Netaji Subhash **2017-2020**
Engineering

College

Diploma -Electrical Engineering

CERTIFICATION

PYTHON AND APPLICATION OF RASPBERRY PI

- Designed and implemented a railway signal system using Python and Raspberry Pi Pico micro controller, enabling safe train operations
- Improved railway safety with MicroPython code controlling LEDs (green, yellow, red) for varying train distances, integrating accurate distance sensors for reliable signaling

ACHIEVEMENTS

- Secure 2nd position in SDEF Competition
- Led a team of 6 members to secure funding for Safernama