UDAY SANKAR MUKHERJEE

I am a passionate RPA developer, robotics and IoT enthusiast, junior researcher, and future IEM'25 graduate who thrives on creating innovative hardware projects while mastering microcontrollers and microprocessors.

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F2Uday

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EXPERIENCE

Drones and Robotics Intern

IEMA Research & Development PVT. LTD.

Movember 2022 - June 2023

- ♥ Kolkata
- Made a Fully Functional Hexacopter And Implemented Computer vision and Sensors Interface.
- Worked with an NHS Project Implementing RPA for Patient Data Management.

PROJECTS

IOT-BASED AIR QUALITY MONITORING SYSTEM

Patent Filed APPLICATION NO.: 202231024776

- Sensor Interface to take daily Dataset of our surrounding air quality from specific Sites.
- Used Thingspeak Cloud to upload data so that it's accessible to a local Website where anyone can Check the Daily Estimated Air Quality.
- Predicting the Upcoming Air Quality and Plotted it On Real data.

Visual Feature Extraction in Augmented and Virtual Reality Innovative Project

- September 2022 Present
- Taking Smartphone Camera Feed and Performing Computer vision Algorithms on it.
- Extracting different Features From a Room Blueprint and Performing GANN to generate a Variety of Custom Objects.
- Overlaying these Objects on real Objects and Hence creating a Virtual Enviornment From a Smartphones camera.

Automated 5 d.o.f. Robot

Flipkart grid 5.0

- September 2023
- The Robot takes in packages from a basket and Decides which class of Package it belongs to.
- After that it checks for QR code position by rotating it All sides.
- Finally it keeps the package on the final position with QR on the top side.

EDUCATION

BTech in Computer Science, Artificial Intelligence & Machine Learning IEM Kolkata

🛗 September 2021 – Present

SGPA:9.54

CBSE Class XII

Hariyana Vidya Mandir, Saltlake

92.4%

SKILLS



POSITION OF RESPONSIBILITY

- IEM IEDC| Inventory Team Lead & Robotics Domain Lead-Did projects on IoT, and Drones .
- CEDS| Team Member-Currently doing projects on BCI and ARVR.

ACHIEVEMENTS & CERTIFICATES

• JOY OF COMPUTING USING PYTHON: IIT, Madras - (Elite+Silver)