

Joyal Kenus

Email: joyalkenus2711@gmail.com ❖ +447859798421 ❖ 288 Whitehorse road, CR0 2LD

EDUCATION

University of Central Lancashire

Msc, Mechatronics and Intelligent Machines

- Graduated with Distinction.

Jan-2022 - July 2022

Preston, Lancashire

Nehru Institute of Engineering and Technology

BE, Mechatronics Engineering

- Graduated with First Class Degree.

Jan-2022 - July 2022

Coimbatore, Tamil Nadu, India

PROJECTS

• AI Skill Analyser for Reputy.io (AI Hackathon London Finalist Project) :

- Designed the AI architecture for a soft skill analyser from scraped social media data.
- Implemented Retrieval Augmented generation based tuning with Multimodal GPT to extract talent.

• Semi-Autonomous Face Orientation Controlled Wheelchair Driving System:

(Computer vision and Robotics)

- Developed a Facial orientation recognition system with OpenCV and tested it on an Arduino robotic car in real time, integrated powertrain calibration techniques to optimize the wheelchair system for varying commands.
- Implemented an obstacle avoidance system using Arduino-controlled ultrasonic sensors.
- Developed a WeBots 3D simulation and reconstruction of a robotic car to confirm precision of the facial orientation-based driving system.

• Bionic Hand for Handicapped to Ride a Motorbike:

- Engineered a prototype for a bionic hand enabling disabled individuals to control motorbike acceleration.
- Designed the bionic hand to detect bicep rotations, linking these to the bike's acceleration.

• Warehouse Management System Using 4 DOF Robotic Arms:

Devised a Warehouse Management System using 4 DOF robotic arms for optimized storage handling.

- Led a team of four to achieve the prototyping and the design of the system on time.
- Constructed a mini prototype, refining algorithms for improved efficiency and added a record-and-play function for operator training.

ACHIEVEMENTS

- **AI Hackathon Finalist :** Encode club AI hackathon 2024 Finalist and Solana bounty 3rd prize winner.
- **4.0 GPA in Master's Degree :** Msc Mechatronics and intelligent machines graduated with distinction.
- **CBSE 10 Point Holder:** Achieved 10 point CGPA (CBSE India) in High School.

WORK EXPERIENCE

Up and Away Aviation Detailing

Aircraft Cleaner

Sept. 2023 – Present

Gatwick Airport, London

- **Detail Oriented:** Ensuring utmost cleanliness and Following all safety standards.
- **Time Management:** Working under strict time slots which improved my time management skills
- **Team Work:** Working as part of a team to achieve common goals.

Dreams Care Agency

Health Care Assistant

Mar,2022 – Mar 2023

Preston, Lancashire

- **Provide Care and Support:** Showcasing empathy and interpersonal skills.
- **Multi-Tasking:** Managing multiple tasks efficiently under pressure.
- **Adapting Various Scenarios:** Adapting to various situations and patient needs, demonstrating flexibility.

SKILLS

Programming Languages: Python, R, Javascript, Embedded C, C++, C# SQL, Java

Technologies and Tools: Arduino, MATLAB, Simulink, SQL,Tableau, PowerBi, OpenCV.

Data Analysis and AI : Implement Pipeline, Machine Learning, Deep learning with Tensorflow, keras and pytorch.

Design and Simulation: 3D Modeling, SLAM,CAD Designing, Simulation Cost Estimation.

Robotics: Microcontrollers, Embedded systems,PLC, Pneumatic systems, Path Planning.