

MITESH SALVI

Graduate Automation & Robotics Engineer

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Full UK Graduate Route Visa — Unrestricted Right to Work, No Sponsorship Required

Student Member, Institution of Engineering and Technology (IET) | Student Member, Association for Project Management (APM)

PROFESSIONAL SUMMARY

MEng (Hons) graduate in Intelligent Automation and Robotics, Artificial Intelligence from Edge Hill University, with a Diploma in Robotics and Mechatronics and hands-on experience applying mechanical and control engineering principles to automation and robotics projects. Practical background in CAD (AutoCAD), control systems and sensors, circuit design and troubleshooting, and automated mechanism design, including a 2nd-place finish at the Unibot Competition 2025 (University of Cambridge). Skilled at communicating technical engineering work clearly to non-technical audiences through a university open day role. A hands-on problem-solver looking to build a career in industrial automation and machine/controls engineering.

KEY ACHIEVEMENT

2nd Place, Unibot Competition 2025, University of Cambridge — designed and programmed an autonomous ball-collection robot from concept to working prototype, representing Edge Hill University against national university teams.

CORE SKILLS

Engineering & Systems: Control Systems & Sensors, Automation Systems, Circuit Design & Troubleshooting, Automated Mechanism Design, Embedded Systems, Mechatronics, Digital Electronics, Autonomous Robot Navigation

Software & Tools: AutoCAD, Microcontroller Programming (Arduino, Raspberry Pi), Python, C, MATLAB, Cloud Computing & Cloud Concepts (Azure), Microsoft Office

Professional: Problem Solving, Documentation & Report Writing, Team Collaboration, Communication, Multi-tasking

ACADEMIC & PERSONAL PROJECTS

Hands-on engineering projects from the MEng (Hons) in Intelligent Automation and Robotics at Edge Hill University, and the Diploma in Robotics and Mechatronics at IDEMI, Mumbai.

Autonomous Robotic Car for Ball Collection — Unibot Competition 2025 01/2026 – 05/2026

- Designed and programmed an autonomous robotic vehicle from concept to working prototype, integrating mechanical, sensor, and control systems.
- Applied AprilTag detection and image processing to identify and collect balls autonomously.
- Achieved fully autonomous identification and delivery of collected balls; placed 2nd representing Edge Hill University at the University of Cambridge.

Robotic Arm for Pick and Place — University Competition Special Prize Winner 11/2022

- Built a four-motor robotic arm using Arduino, applying mechanical and control engineering principles to motor movement and coordination.
- Integrated mobile app control for both manual and automated operation.
- Added object pick-and-place capabilities; won the Special Prize in a university competition.

Autonomous Mobile Robot with Raspberry Pi 04/2023

- Led the design and programming of a low-cost autonomous mobile robot (AMR), including sensor selection and hardware troubleshooting.
- Implemented line-following and obstacle avoidance using onboard sensors.

Greenhouse Monitoring and Control System — Diploma Project 03/2021

- Developed an IoT-based greenhouse automation system driven by soil moisture and temperature sensors.
- Automated sprinkler and sunlight control mechanisms based on sensor readings.

Take-Home Pay Calculator 10/2022

- Collaborated in a four-person team to build a Python terminal application.
- Calculated net income for employees using tax slabs and exemptions, generating monthly and yearly tax breakdown reports.

WORK EXPERIENCE

Open Day Demonstrator

08/2025 – 07/2026

Edge Hill University, Ormskirk

- Present an automated Object Detection Car project to prospective students and visitors, explaining the engineering behind it in accessible terms — directly comparable to supporting customers with technical product selection.
- Explain design, development, and hardware/software integration work to non-technical audiences.
- Represent the Intelligent Automation and Robotics Program at open day events, highlighting the 2nd-place Unibot Competition 2025 finish.

Health Care Assistant

02/2023 – Present

Stocks Hall Residential Care Home, Burscough

- Support residents, including those living with dementia, with daily care needs while ensuring wellbeing and dignity.
- Liaise with family members, carers, and healthcare professionals to coordinate care — demonstrating reliability and structured communication alongside full-time study.

Warehouse Operative

11/2022 – 01/2023

DHL — Beauty Bay, Skelmersdale

- Picked and packaged client orders accurately under time pressure, using inventory scanners and stock management systems.
- Worked as part of a team to help increase operational efficiency.

EDUCATION

MEng (Hons), Intelligent Automation and Robotics, Artificial Intelligence

09/2022 – 07/2026

Edge Hill University, Ormskirk, England

Coursework: Emerging Technologies, Intelligent Autonomous Systems, Project Management, Research and Development Project, Electrical and Electronic, Applied Industrial Automation, Control System and Instrumentation, Circuits and Logic, Professional Practice in Engineering, Computer and Engineering, Signal Processing, Foundations in Robotics and Artificial Intelligence, Applied Mathematics.

Diploma, Robotics and Mechatronics

01/2019 – 05/2021

IDEMI, Mumbai, India

Coursework: Digital Electronics, Microcontroller and Applications, CNC Machine Tool Technology, C Programming, AutoCAD, Automation Electronics, Control System, Robotics Maintenance, Design of Mechatronics System, Computer Integrated Manufacturing System, SCADA-HMI.

10th Standard (ICSE)

2018

N. L. Dalmia High School, Mumbai, India

CERTIFICATIONS

- Microsoft Certified: Azure Fundamentals (AZ-900)
- Remote Pilot Certification of Competence
- Robocar Designing

ADDITIONAL INFORMATION

- Full UK driving licence: currently working towards.
- Edge Hill University placed 4th (team result) in the End-of-Year Showcase 2023.
- Enhanced DBS certificate (UK).
- Participant: RoboCamp Junior (India), Byju's Learning Program (India), Talent Hunt Contest — Rao IIT Academy (India).