

Arpit Sharma

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Education:

Oct 2020 - Oct 2021:[1] De Montfort University, MSc Intelligent Systems and Robotics (1st)

Modules Included: Computational Intelligence Optimization, Applied Computational Intelligence, Natural Language Processing, Artificial Neural Networks and Deep Learning, Intelligent Mobile Robots, Research Methods, Mobile Robots, Fuzzy Logic

MSc. Thesis Project - pH monitoring using “Artificial Intelligence on Edge” with state of art, “TinyML” and ESP32 microcontroller, “Internet of Things”, a dedicated mobile app, and emergency email alerts, in a physical prototype of a hydroponic system

Aug 2012 – Aug 2017: Manipal Institute of Technology, B.S Electrical and Electronics (2:2)

Modules Included: Problem Solving Using Computers, Electrical Machinery, Digital System Design, Analog System Design, Communication Systems, Signals And Systems, Analog Systems Design, Modern Control Theory, Power Electronics, Soft Computing

Work Experience:

July 2022 - Current: Research Assistant in Machine Learning and Net-Zero process, De Montfort Expertise Limited:

- Conduct literature reviews
- Collect and analyze data
- Develop machine learning models and optimize them to control the system.
- Provide ready access to all experimental data for the faculty researcher and/or supervisor

- Supervise undergraduate students working on the research project (maintaining records on assignment completion, acting as liaison/mediator between the undergraduate students and the faculty researcher)
- Attend project meetings
- Compile data for progress reports

October 2020 - January 2022: Office Administrator, Task Engineering Solutions Limited:

- Office administration – coordinating office activities and operations to secure efficiency and compliance with company policies
- Record keeping for health, safety, and environments inspections
- Supervising internal staff and allocating responsibilities to ensure performance
- Client interface to communicate any concerns between senior management
- Create and update records and databases with personnel financial and other data
- Submit timely reports and prepare proposals/presentations as assigned.

Key Skills: Organisation (Customer service skills, Problem-solving skills, Interpersonal skills, Communication skills) flexible

September 2019- January 2020: Assistant Engineer, Narayn SonaTech Infrastructure Pvt Ltd:

- My job requirements were conducting inspections and analytical tests, analyzing and synthesizing data while maintaining control charts, and determining root causes
- I also prepare bid specifications from clients based on feasibility studies
- While we work according to specifications provided by clients, I assure and prepare guidelines by describing operational and testing methods and procedures to the workforce

- In addition to that, I provide support to the supervisors throughout the planning and execution of the project and oversee and provide reports on progress and issues that arise during the project life cycle and emerging technologies.

Key Skills: Organisation (Data analysis, Prioritization, Adaptability, Time management, Cost control)

Skills and Interests:

- Programming Languages:

Java – 100%

Python 100%

Dart – 80%

C++ - 70%

MATLAB - 80%

JavaScript - Beginner

SQL – Beginner

HTML – Beginner

- Machine using TensorFlow – 100%
- IOT – 100%
- PCB Design – 100%
- MS Office and Latex – 100%
- Android App development – 100%
- Arduino – 100%
- Robot Simulator, ROS (Robot Operating System – 90%