Mohamed Hisham Sultan Mohamed Ravi

Philips Court, iQ Manchester Gardens, Hope Rd, Manchester, M14 5EW
• +44 7823715290 • hishu18@gmail.com • www.linkedin.com/in/mohamed-hisham18

Professional qualification

A highly passionate engineer with great drive, passion and practical knowledge of mechatronics, whose main focus is on engineering – robots. Skilled in robotics design, control systems, and intelligent automation. Currently pursuing a Master's in Robotics at the University of Manchester to further enhance expertise in advanced technologies such as machine learning, cognitive robots and autonomous systems. Looking for opportunities in the field of robotics and automation in the UK with an aim to be highly productive in the challenges that are posed by the field by employing creativity and technical skills in problem solving approaches.

Education

The University of Manchester, United Kingdom　　　　　　**September 2024 - Present**

MSc Robotics

- Key modules include Autonomous Mobile Robots, Foundations of Machine Learning, Cognitive Robotics and Computer Vision, Software for Robotics (Robot Operating System), Robotic Systems and Robotic Manipulators.

SRM Institute of Science and Technology, India

B. Tech Mechatronics Engineering with Specialisation　　　**September 2020 - May 2024**
in Robotics
C.G.P.A - 7.81

- Key modules include mechanics of manipulation, sensors and signal conditioning, system dynamics, microcontrollers and embedded systems, machine design and mechanics of solids and fluids.
- Collaborated with a team of course mates for final year project to design and develop a Smart Library Assistant Robot that helps library users to locate and retrieve book with the support of ROS, LIDAR sensors and obstacle avoidance algorithms.
- Designed body and components using CAD software Solidworks and programmed through Raspberry Pi running Ubuntu on ROS with Python.
- Worked on mini projects involving Arduino microcontroller.
- Coordinated efforts with the student team SRM-DSA (Directorate of Student Affairs) in organising and facilitating college cultural events.

Work Experience

Internship at Tapco Pneumatics, Chennai, India   **July 2022 - August 2022**

- Collaborated with a team of 10+ fluid system engineers specialised in designing and implementing pneumatic and hydraulic systems
- Designed custom mechanical components on AUTOCAD based on client specifications and fabricated them using lathe machines
- Assembled hydraulic struts for wheelchair lifts and out-swing doors installed in public transport
- Configured and connected pneumatic circuits

Internship at Encon Automation, Gurugram, India   **June 2023 - July 2023**

- Worked alongside other engineers to develop and upload PLC programs for automation processes
- Programmed and operated Universal Robots' collaborative robots
- Configured Cartesian coordinate robots

Technical Skills

- **Languages:** Python, C++, XML, Assembly
- **Frameworks/Libraries:** ROS, ROS 2, OpenCV
- **Developer tools:** VSCode, PyCharm, Git, Jupyter Notebook, Arduino IDE
- **CAD software:** SolidWorks, AutoCAD

Languages: English, Hindi, Tamil