



JAGMOHAN MEHER

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CAREER SUMMARY

R&D engineer • AI and ML engineer • Robotics engineer

- **R&D engineer** with over 5 years of experience in cutting-edge research and development.
- **An ML and AI engineer** with over 2 years of experience developing ML and AI models to solve some of the world's most pressing problems.
- **Experienced robotics engineer** with hands-on experience in mechanical and electrical systems, Python programming, and Linux command-line operations.

SKILLS

- Programming – Python3, MATLAB, C++, C#
- AI and ML – PyTorch, TensorFlow, Keras, Scikit-learn, OpenCV, and Deep Learning
- Data – analysis, visualization, prediction, regression, and Tableau
- Electronics – digital circuits, IC processing, lithography, Verilog, and VLSI
- Automation – robot programming, PLC, SCADA, Arduino, and Raspberry Pi, ROS 2, MoveIt 2, Gazebo
- Soft skills – Leadership, critical thinking, effective written and spoken communication, and ownership.

PROFESSIONAL EXPERIENCE

Quadrep Electroncis Taiwan Ltd, New Taipei, Taiwan

June 2024 – May 2025

A factory automation leader and a major electronics distributor in Taiwan.

Software Engineer

Developed cutting-edge software to automate assembly lines in factories using AI and machine learning.

- **Developed QROS (Quadrep Operating System)** a tool to control and operate multiple robot brands using a single and intuitive user interface. Robot brands included Denso, UR, Kawasaki, Fanuc and ABB.
- **Developed a smart pick and place application** by mounting a Denso Cobotta pro on a MiR AMR. It used a RealSense camera to perceive the racks in an AI server room and performed accurate pick and place.
- **Developed a firmware** for Honeywell IMU sensor using ROS 2 Humble.

Nordling Lab, Tainan, Taiwan

Oct 2021 – Feb 2024

A research lab at NCKU where AI and robotics are used to develop software and prototypes for commercialization.

Research Assistant

Conducted research on machine learning and deep neural networks for the development of advanced face alignment algorithms and remote photoplethysmography (rPPG) using Python.

- **Achieved first rank in the Young Investigator Competition** at the International Conference of Biomedical and Health Informatics, Concepcion, Chile (ICBHI 2022) for the best research paper and presentation.
- **Collected, cleaned, and maintained experimental data** that included video and physiological data. Trained the other researchers to in data collection and management.
- **Developed deep neural network models** to calculate the heart rate by recording the facial video.

- **Implemented lean strategies** to improve the functioning of the lab which led to multiple grants, conference papers and journal publications.

Skyfi Labs, Bangalore, India.

Oct 2018 – Oct 2021

An ed-tech leader who delivers hands-on courses and workshops on robotics, mechatronics, computer vision, IoT, and machine learning.

Lead Robotics R&D Engineer

I began as a research and development engineer developing automation projects and mentoring more than 5000 students on robotics. As a manager and a team leader, I used data to make decisions and develop lean management strategies to reach the vision of becoming the best ed-tech. I developed multiple processes and pipelines like experiment process for R&D, customer experience, sales, marketing, inventory, and experiments for growth in revenue.

- **Developed innovative industrial robots** like automated color sorting machine, industrial line following and obstacle avoiding robot, and industrial robotic arms.
- **Designed, maintained, and delivered** hands-on training on how to build and program robots for various tasks, enhancing their practical skills in robotics and coding.
- **Developed a community of more than 1000 young roboticists** aged 5-15, who engage in building innovative robots and developing code to tackle some of the world's most pressing problems.
- **Hired, trained, and supervised** a team of more than 30 researchers and robotics engineers who pushed to boundaries of robotics and mechatronics research, while mentoring and inspiring young minds toward innovation and problem-solving.

EDUCATION

Master of Science, Mechanical Engineering

Sep 2021 – Feb 2024

National Cheng Kung University, Tainan, Taiwan (GPA – 4.18)

Recipient of NCKU International Distinguished Student Scholarship, IEEE student member

Thesis topic - "Evaluating the Impact of Face Alignment Techniques on Video-based Non-contact Heart Rate Measurement".

Bachelor of Technology, Electronics and Communication

Aug 2014 – June 2018

Lovely Professional University, Jalandhar, India (CGPA – 8.56/10)

Recipient of LPU NEST scholarship.

PUBLICATIONS

A survey and classification of face alignment methods based on face model.

- **ArXiv version** - <https://arxiv.org/abs/2311.03082> (submitted to International Journal of Computer Vision).

Acquisition and synchronization of cardiography signals from a clinical patient monitor with facial video recordings.

- **Paper presented** at the International Conference of Biomedical and Health Informatics (ICBHI 2022). To be published in the International Federation of Medical and Biomedical Engineering Proceedings book.

LANGUAGES

English - Advanced (TOEFL iBT – 102/120)

Hindi - Native

Spanish – Intermediate

Chinese Traditional – Beginner