Paris Nouri

Roboticist – Vision-Guided Robotics
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SUMMARY

Robotics & AI Engineer with 7+ years of experience designing and deploying robotic arms, EOAT systems, AGVs/AMRs, conveyor sorting, and UAV-based vision systems. Skilled in integrating computer vision, deep learning, and motion control to deliver industrial automation solutions across warehouse automation, pulp & paper, and maritime navigation. Experienced in robot programming, calibration, I/O control, and cycle time optimization, with a proven track record of bridging R&D and real-world deployments.

AREAS OF EXPERTISE

- **Robotics & Automation:** Robotic Arms, EOAT (Grippers, Push Arms, Actuators), AGVs/AMRs, UAVs, ROS
- **Vision Systems:** RGB/Depth Cameras, Kinect, NIR/NDVI, OpenCV, Camera Calibration
- **AI & Machine Learning:** CNNs, Transformers, Object Detection, TensorFlow, PyTorch
- **Integration:** Motion Sync, I/O Control, Conveyor Integration, SLAM, Path Planning (ACO, Neural Nets)
- **Tools & Platforms:** RobotStudio, Fanuc Roboguide, DroneKit, LabVIEW, Arduino/mikroC

PROFESSIONAL EXPERIENCE

Data MLOps Engineer & AI Consultant — Freelance

Vancouver, Canada | 2023 – Present

- Integrated ML/vision models into production pipelines for automation clients using CI/CD, monitoring, and containerization.
- Applied LLMs and vision APIs for robotics and industrial data systems.

Senior Applied Scientist — RGE Group

Kuala Lumpur, Malaysia | 2021 – 2023

- Developed a vision-guided conveyor sorting system with RGB cameras and robotic push-arm EOAT; achieved 98% classification accuracy and optimized cycle times for warehouse automation.
- Researched and developed a UAV-based vision system using RGB/NIR/LiDAR for environmental and tree health monitoring.
- Delivered predictive maintenance solutions for pulp & paper using IoT + ML, reducing downtime by 30%.
- Conducted AI & robotics workshops for 400+ stakeholders.

Robotics Engineer — Ehm Global Sdn Bhd

Kuala Lumpur, Malaysia | 2018 – 2021

- Designed and developed an AGV system for multi-level warehouse environments with dynamic path planning in 3D using a hybrid algorithm combining Ant Colony Optimization (ACO) with deep neural network-based heuristics.
- Directed cross-functional teams on machine learning, robotics hardware, and control integration.
- Led R&D for a semi-autonomous ferry, implementing vision-based obstacle detection, real-time recognition, and autonomous navigation.
- Designed and integrated CAN Bus/IoT systems for robotics and maritime automation.

Robotics & Vision Systems Engineer — iRadar Sdn Bhd

Melaka, Malaysia | 2015 – 2016

- Designed and programmed a 4-DOF robotic arm with inverse kinematics, integrating gripper EOAT and motion calibration.
- Developed a Kinect-based AGV prototype for indoor mapping using SLAM and obstacle detection.
- Built a platform controller for a 3D modeling machine, including multi-camera synchronization, motor control board design, and LabVIEW GUI software.

EDUCATION

- **BEng in Electronics – Robotics & Automation** — MMU, Malaysia, 2015
    - **Final year Project:** Line follower robot using PIC Micro controller
- **MEng in Electronic Systems – Machine Learning** — UTeM, Malaysia, 2018
    - **Thesis:** EEG-based Emotion Classification with CNN
- **MA in Leadership (Business Stream)** — Trinity Western University, Canada, 2024

CERTIFICATIONS

- NVIDIA Deep Learning with GPUs | TensorFlow 2 & Keras Bootcamp
- Google Cloud ML Specialization | AWS SageMaker Training
- Agile Project Management (Google) | Lean Six Sigma

TECHNICAL SKILLS

Languages: Python, C++, C#, SQL, mikroC
Frameworks: TensorFlow, PyTorch, OpenCV, Flask, Django
Robotics Tools: RobotStudio, RoboDK, ROS, DroneKit, LabVIEW, AutoCAD, SolidWorks
Cloud/Infra: AWS SageMaker, Docker, Git, Neo4j, PostgreSQL