KHALIL KARIM

ROBOTICS ENGINEER // FANUC SPECIALIST // ONTARIO, CANADA

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PROFILE

Industrial robotics programmer with 12+ years programming, simulating and commissioning robotic systems for automotive manufacturing. FANUC specialist, based in Ontario and working across Canada, the USA and Mexico.

EXPERIENCE

ROBOTICS ENGINEER
2021 – Present

Singularity Technologies Inc.

- Independent contractor providing FANUC robotics programming to the automotive industry.

ROBOTICS PROGRAMMER
2021 – Present

Humber Automated Systems

- Commission robotic cells on the build shop floor using simulation data.
- Configure and integrate Keyence bin picking vision systems.
- Set up cell safeties and FANUC DCS, verified against customer requirements.
- Teach processes to real parts: spot weld, handling and dispense.
- Finalize cells at the customer site and complete buy-offs on safety, quality, function and cycle time.

SENIOR PROJECT ENGINEER, ROBOTICS
2014 – 2021

Esys Automation · Auburn Hills, MI

- Recommended, selected and simulated robotic systems for customers.
- Programmed robotic systems offline in simulation software.
- Integrated vision, handling and sealer equipment; configured EOAT I/O and dispense.
- Supported machine start-up and trained customer trades.

EDUCATION

Electromechanical Engineering Technology

Automation and Robotics, Humber College. Graduated with honours, 2014.

CORE SKILLS

- FANUC robot programming
- Spot / stud welding
- Sealer and dispense
- Glass cells: urethane + auto decking
- Material handling
- FANUC iRVision 2D / 3DL
- Keyence bin picking
- Matrox 2D error proofing + offsets
- INOS / VMT SpinTop vision
- FANUC DCS
- FANUC Roboguide offline programming
- Cycle time optimization
- GM GRS, Ford and FCA standards
- PLC integration

CERTIFICATIONS

FANUC
Dual Check Safety V7.50+

FANUC
iRVision 3DL, R-30iB

FANUC
iRVision 3D Multi-View, R-30iB

FANUC
PaintTool Operation & Programming

MACOMB CC
GM Global Robot Specifications (GRS)

OSHA
10-Hour General Industry

GM
Lockout, Annual Renewal

LEONI
Lockout / Tagout Safety

PLANTS ON SITE // 19 ASSEMBLY PLANTS IN CANADA, THE USA AND MEXICO

CANADA // 4

FCA Brampton
FCA Windsor
GM CAMI, Ingersoll
GM Oshawa

USA // 12

Ford Louisville
Ford Ohio
Ford Kentucky Truck
Ford Flat Rock
Ford Chicago
Ford Kansas City
GM Fort Wayne
GM Fairfax
GM Lansing Grand River
GM Arlington
GM Spring Hill
FCA Sterling Heights

MEXICO // 3

Ford Hermosillo
GM San Luis Potosí
GM Ramos Arizpe