

IMRAN KHAN

Utica, MI · khan.zane.imran@gmail.com · (586) 255-0406

EDUCATION

Wayne State University BS Engineering Technology <i>GPA: 3.6</i>	Detroit, MI August 2016 - June 2019
Macomb Community College AS Product Development <i>GPA: 3.7</i>	Warren, MI August 2013 - June 2016

EXPERIENCE

Webasto Roof Systems <i>Robotics Engineer</i>	New Hudson, MI January 2023 - Present
---	--

- Use RobotStudio to write programs offline for trial parts and upload them to IRC5 robot controller.
- Use Famos Robotics to adjust milling robot cut paths to official CAD for quality parts.
- Adjust pick and drop positions in material handling robots.
- Collaborate with Quality and Manufacturing engineers on improvements to the production line.
- Quickly troubleshoot faults and home robots with FlexPendant to minimize downtime.
- Regularly backup all IRC5 controllers to a hard drive and restore previous versions when necessary.

Webasto Roof Systems <i>Robotics Maintenance Technician</i>	New Hudson, MI January 2022 - January 2023
---	---

- Worked with mechanical systems on production line and performed periodic maintenance and repair.
- Used RobotStudio to touch up ABB robot tool paths to accommodate product changes.
- Performed mechanical repairs of pneumatic actuators, jigs, and fixtures on robot lines.
- Worked with manufacturing engineers and quality on product changes and continuous improvement.
- Worked with controls engineers to implement changes in machine logic and HMI using Allen-Bradley.

4D Systems LLC <i>Systems Engineer</i>	Flint, MI September 2019 - December 2022
--	---

- Programmed FANUC robot routines and integrated robot lines at job sites.
- Performed offline programming for robot operations using Roboguide.
- Provided robot and HMI production support at customer plants.
- Uploaded and backed up robot programs in FANUC robots.

Lightweight Innovations For Tomorrow <i>Engineering Intern</i>	Detroit, MI August 2018 - June 2019
--	--

- Used Solidworks for parts and assembly design.
- Engaged with engineering team discussions on lean manufacturing.
- Designed coin featuring company logo cut with laser cutter.
- Studied code used for line of COMAU spot welding robots used for assembly of battle tanks.
- Programmed robot arm with Arduino and designed and 3D printed parts for end effector for senior project.

SKILLS

Robot Simulation:	RobotStudio, Roboguide, Famos Robotics
Robot Programming:	RAPID, FANUC
Computer Aided Design:	Solidworks, Catia, Siemens NX