# Brandon Mueller

Robot Programmer

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## SUMMARY

Robot Programmer with 6 years of full-time robotics work, including 3 years programming FANUC and ABB robots for welding, palletizing and machine-tending cells in upstate South Carolina. Writes teach pendant and offline programs, integrates robots with PLCs and vision systems, and cuts cycle time without losing quality. Brings strong troubleshooting and communication skills.

## EDUCATION

**Associate of Applied Science** 05/2020
Greenville Technical College Greenville, SC
Mechatronics Technology

## EXPERIENCE

**Robot Programmer** 05/2023 - Present
Upstate Robotic Integration Greenville, SC
*Robot integrator building welding and handling cells for automotive and appliance plants.*

- Program FANUC and ABB robots for **22** welding, palletizing and machine-tending cells from concept to buyoff.
- Build offline programming models in ROBOGUIDE and RobotStudio, cutting on-site teach pendant time by 40%.
- Integrate robots with PLCs and vision systems, reaching 99% pick rates on 6 bin-picking cells.
- Lead troubleshooting at customer plants, restoring 30 down cells within 4 hours each.

**Robotics Technician** 06/2020 - 04/2023
Piedmont Auto Components Spartanburg, SC
*Tier 1 automotive supplier running 140 robots across 2 plants.*

- Maintained 140 FANUC robots for robotic welding, raising robot uptime from 94% to 98%.
- Edited weld paths and touch-up points after tooling changes, cutting weld rework by 25%.
- Read electrical schematics to replace servo amplifiers, cables and sensors across 3 shifts.
- Reduced cycle time on 4 weld cells by 6 seconds each through path and wait-time edits.

**Automation Technician Co-op** 08/2018 - 05/2020
Carolina Machine Works Greer, SC
*Contract machining shop with 3 robotic machine-tending cells.*

- Loaded and verified robot programs on 3 FANUC machine-tending cells during 2 shifts a week.
- Replaced grippers, sensors and air lines on robot end-of-arm tooling with the lead technician.
- Logged 150 downtime events and their causes for the plant engineer.

## SKILLS

FANUC • ABB • Teach Pendant • Offline Programming • PLCs • Vision Systems • Robotic Welding
Electrical Schematics • Troubleshooting • Communication Skills

## CERTIFICATES

**FANUC Handling Tool Operation and Programming**
FANUC America
08/2020

**ABB IRC5 Robot Programming**
ABB Robotics
02/2023

**OSHA 10-Hour General Industry**
OSHA Outreach Training Program
07/2020