Thomas Reilly

Robotics Engineering Lead

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SUMMARY

Robotics Engineering Lead with 12 years in industrial automation, the last 4 leading 9 engineers who design and launch robotic cells for material-handling automation. Specializes in integrating collaborative robots, offline programming and vision-guided picking, backed by a mechanical engineering degree. Known for cross-functional collaboration and clear communication with plant leaders.

EXPERIENCE

Robotics Engineering Lead

02/2022 - Present

Carolina Automation Group — Charlotte, NC

Systems integrator with $70M in annual robotic cell sales.

- Lead 9 robotics and controls engineers delivering **35** cells a year for food, packaging and distribution customers.
- Standardize offline programming in RoboDK and ROBOGUIDE, cutting commissioning time by 30%.
- Direct work on integrating collaborative robots for 14 palletizing and kitting cells that passed every risk assessment.
- Partner with sales and project managers on 60 quotes a year, holding engineering budgets within 5%.

Senior Robotics Engineer

05/2017 - 01/2022

Queen City Robotics — Charlotte, NC

Robotic packaging and palletizing integrator.

- Designed 40 depalletizing and case-packing cells with FANUC and ABB robots and vision systems.
- Built a gripper library in SolidWorks that was reused on 70% of projects.
- Commissioned cells at 25 customer plants and trained 200 operators.
- Mentored 4 junior engineers on robot programming and safety design.

Robotics Engineer

06/2014 - 04/2017

Piedmont Controls & Robotics — Greensboro, NC

Controls and robotics integrator for metal fabrication plants.

- Programmed 30 FANUC robots for welding and machine tending.
- Wrote PLC logic and HMI screens for 12 robot cells.
- Optimized robot paths that cut average cycle time by 9%.

SKILLS

- **Offline Programming**
- **Collaborative Robots**
- **Material-Handling Automation**
- **Mechanical Engineering**
- **FANUC**
- **ABB**
- **Vision Systems**
- **SolidWorks**
- **Cross-Functional Collaboration**
- **Communication**

EDUCATION

Bachelor of Science

North Carolina State University

Mechanical Engineering

Raleigh, NC

05/2014

CERTIFICATES

Project Management Professional (PMP)

Project Management Institute

06/2021