

Aaron Holwick

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Professional Summary

Dynamic and results-oriented Manufacturing Engineer with comprehensive expertise in mechanical, electrical, and controls engineering. Proven track record of delivering innovative turnkey solutions that enhance efficiency, reduce costs, and boost throughput by up to 30%. Skilled in integrating robotics, PLC programming, and vision systems into complex production environments. Adept at leading cross-functional teams, managing multimillion-dollar projects, and spearheading continuous improvement initiatives. Committed to problem-solving, quality assurance, and driving operational excellence.

Core Competencies

- **Automation & Robotics:** Fanuc, ABB, Collaborative CRX Robotics, Keyence, Cognex, and LMI 3D Vision Systems
- **Controls & Programming:** Allen-Bradley PLC (including Safety PLC) programming, Python, MATLAB
- **Mechanical & Electrical Design:** AutoCAD, AutoCAD Electrical, SolidWorks; Comprehensive BOM creation; Electrical schematics
- **Project Management:** End-to-end project oversight from RFQ to commissioning, large-scale team leadership, subcontractor coordination, on-time delivery
- **Continuous Improvement:** Process optimization, quality assurance, cost reduction, efficiency gains
- **Communication & Leadership:** Cross-functional collaboration, client-facing negotiations, team mentorship, stakeholder alignment

Selected Achievements

- **Increased Production Efficiency:** Spearheaded the design and commissioning of a fully automated extrusion line, integrating robotics, vision systems, and PLCs to achieve record-breaking performance metrics—improving throughput by 30%.
- **Cost Savings & Process Optimization:** Optimized extrusion processes and reduced downtime by 20%, leading to significant operational cost reductions and improved profitability.
- **Complex Project Management:** Managed and successfully completed multimillion-dollar system installations, coordinating cross-functional teams, subcontractors, and vendors while consistently meeting or exceeding project deadlines.

- **Robotics Integration & Training:** Completed 45 hours of intensive Fanuc training and integrated multiple Fanuc and CRX robots, improving production safety, consistency, and output quality

Professional Experience

Senior Manufacturing Engineer, Panduit – Chicago, IL

Mar 2022 – Nov 2024

- Engineered and programmed electrical systems for advanced plastic extrusion and molding processes using AutoCAD and Allen-Bradley PLCs.
- Built comprehensive BOMs and managed procurement to ensure timely, on-budget component delivery.
- Integrated Fanuc robots and collaborative CRX units, enhancing production line flexibility and reducing manual labor requirements.
- Collaborated with mechanical teams to create optimized systems that simplified long-term maintenance.
- Drove continuous improvement initiatives, staying current with emerging technologies and implementing best practices to boost operational efficiency and quality.

Project Manager, J+H Automation Solutions – Hackett, AR (Remote)

Sep 2021 – Mar 2022

- Led large-scale, seven-figure engineering projects from concept to final acceptance, acting as the primary client liaison.
- Delegated tasks across engineering, procurement, and installation teams to ensure on-time, on-budget project delivery.
- Coordinated subcontractors onsite, enforcing safety protocols and quality standards.
- Contributed technical guidance to the engineering department on critical project elements.

Project Engineer, J+H Automation Solutions – Hackett, AR

Dec 2019 – Sep 2021

- Designed and implemented complete electrical and controls systems for custom automation solutions.
- Programmed PLCs, including Safety PLCs, and integrated Fanuc and ABB robots with custom end-of-arm tooling.
- Deployed Keyence and Cognex cameras for advanced vision inspection applications.
- Managed mid- to high-value projects (\$500K–\$750K) and led larger, diverse teams to successful project completions.
- Conducted finite element analyses for high-power mechanical systems to ensure reliability and durability.

Engineering Intern, J+H Automation Solutions – Hackett, AR

Mar 2018 – Dec 2019

- Assisted with RFQs, supplier coordination, and part procurement to achieve optimal cost and timely delivery.
- Contributed to mechanical and electrical design for various production lines.
- Performed time studies and supported the development of a hydraulic system for Gerdau Steel.
- Gained early leadership experience by managing small teams during installation phases.

Owner, Blizzard Wizard Shaved Ice – Pocola, OK

Jun 2014 – Sep 2016

- Leveraged market analyses and competitor insights to inform strategic product offerings and marketing.
- Managed finances, vendor relationships, and daily operations, cultivating transferable leadership, budgeting, and analytical skills.

Owner, Code Green Lawn Care – Fort Smith, AR

Aug 2011 – Aug 2013

- Developed entrepreneurial skills by managing client relationships, overseeing finances, and adapting services based on public perception and market trends.

Education

University of Arkansas – Fayetteville, AR

- **Bachelor of Science in Mechanical Engineering (Fall 2019)**
 - Graduated with Highest Distinctions (3.94 GPA)
 - Dean's List (Fall 2015–Fall 2019)
 - Vice President & Co-Founder of Numa Motorsports; IEEE Member
- **Associate of Science in Mechanical Engineering (Spring 2018)**