



DEAN A. ROGERS

TARGETED ROLE: ROBOTICS ENGINEER

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SOLVING COMPLEX PROBLEMS | REFINING MANUFACTURING PROCESSES | ELIMINATING INEFFICIENCIES

Robotics Engineer bringing a deep understanding of the technical aspects of robotics, including motion control, sensor integration, and programming, along with eight years in the manufacturing sector. Devoted to ongoing learning and primed to make a significant contribution quickly.

KNOWLEDGE, SKILLS, & TRAINING:

Engineering | Multidisciplinary Teamwork | Automation Solutions | Hardware Interface | Technical Communication | Analysis Software Systems Testing & Troubleshooting | Robotic Process Automation (RPA) | Software Development | Industrial Automation Mechatronics | Software Engineering Principles | Programmable Logic Controllers (PLC) | Control System Design & Coding

EDUCATION

BACHELOR OF SCIENCE – **Mechanical Engineering** | University of North Dakota, *Grand Forks, ND* 5/2022
Magna Cum Laude | GPA 3.83 | Completed while working full-time.

Relevant Coursework: Intro to Robotics, Intro to Autonomous Robotics, Design of Machinery, Systems, Dynamics & Controls, and Mechanical Vibrations

[Autonomous Mobile Robot Navigation in Manufacturing and Warehousing](#) ⇨ Autonomous Robotics graduate class project aimed at decreasing need for human labor in material handling, picking, and transportation, through use of two-wheeled mobile robot equipped with 360° LiDAR scanner.

[Formula SAE Team](#) ⇨ Mounted electronic components and designed mechanical requirements for internal combustion and electric vehicles. Collaborated with teams on sensor mounting systems and converting car chassis to electric power.

[Mountain Bike Suspension Analysis](#) ⇨ Analyzed suspension system to determine optimal damping coefficient for Mechanical Vibrations class by comparing responses in common scenarios.

[Robotic Arm](#) ⇨ Programmed Lynxmotion AL5D robotic 5-degree-of-freedom arm to complete a Tower of Hanoi puzzle using MATLAB.

PROFESSIONAL EXPERIENCE

INVENTORY BUSINESS INTELLIGENCE SPECIALIST/PROCUREMENT SPECIALIST | [Ranger Design](#) | *Rochester, NY* 5/2018-Present

Promoted to partner with production leaders in Rochester and Montreal to make shipment decisions, communicate supply chain issues and risks, monitor stock-out counts, and ensure timely replenishment of goods. Collaborate with internal and external customers on inventory audits and ensure data integrity. Identify and implement inventory cost reduction initiatives.

- **Expanded Business:** Contributed to company's growth, from \$50M to \$100M in seven years, serving as Supply Chain Customization and Development lead.
 - Stepped up to lead project and fast-tracked deployment, completing in just one year.
 - Mapped supply chain processes, unraveled new ERP system, and tested, developed, and trained ten team members on use.
- **Enhanced Operations:** Drove business alignment by managing and building visual display system used by production team.
 - Built an Ubuntu server-based LAMP stack and utilized Python scripts to integrate data from ERP and Excel. HTML, CSS, and PHP codes were modified as needed.
- **Averted Risks:** Used safety stock, minimum quantities, and forecasting models when purchasing materials. Calculation methods were researched and improved, including the segregation of demand from different business areas for independent analysis.
- **Boosted Accuracy:** Developed method of separating distribution and fleet demand forecasting processes.
- **Reduced Errors & Lightened Workload:** Developed and implemented system to automate transfer orders between Rochester and Montreal manufacturing locations.
- **Tasked with Technical Training:** Developed training program that taught VBA code for Excel and SQL resulting in improved data access, automation, and workflows.
- **Stayed Resourceful:** Helped company remain competitive despite global Covid-19 supply chain disruption. Embodied "we find a way" motto by extensively planning orders and tirelessly working to secure suppliers and transportation options.

PROCUREMENT SPECIALIST | **Ranger Design** | Rochester, NY

3/2015-5/2018

Managed sourcing, planning, quoting, scheduling, and ordering materials. Maintained strong relationships with suppliers, communicating with internal teams on project timelines and deadlines, and ensuring commitments were met.

- **Optimized Processes:** Removed inefficiencies and improved quality of information shared by developing a shortage dashboard tool harnessing rapid and real-time communication and minimizing late orders.
 - Developed in Excel, integrated into MS Access, and later incorporated into a new ERP system.
 - Learned how to customize C# .NET system and build as native tool in ERP.
 - Continued to be a crucial part of procurement – used daily by team and leadership in Rochester and Montreal.
- **Minimized Costs:** Responded to potential stock shortages caused by volatile supply and demand by creating early warning tools in Excel and Epicor.
- **Strengthened Performance:** Created Epicor tool to measure quantifiable goals and document progress and completion of procurement KPIs.
- **Shared Knowledge:** Commended for technical proficiency and ERP knowledge, as well as eagerness to share expertise in SQL and Excel VBA.

PRODUCTION ASSOCIATE | **Ranger Design** | Rochester, NY

9/2014-3/2015

Created and assembled ladder racks, shelving, drawers, and safety partitions. Cut and measured materials, using hand and power tools, and followed blueprints and specifications to ensure units met quality and safety standards. Packaged finished products and prepared them for shipment.

- **Increased Output:** Continually sought ways to improve production processes and improve efficiency.
- **Exceeded Targets:** Consistently outpaced performance goals.

PROGRAMMING & SOFTWARE COMPETENCIES

PROGRAMMING LANGUAGES:

SQL Queries, VBA for Excel, Arduino, Python, MATLAB, C++, C#

SOFTWARE/COMPUTER SYSTEMS:

SOLIDWORKS, Fusion 360, Linux, ROS (Robotic Operating System)

PROFESSIONAL DEVELOPMENT

COURSES:

Robotics Software Engineer Nanodegree | Udacity

anticipated, 3/2023

C++ for Programmers | Udacity

anticipated, 3/2023

CERTIFICATIONS:

Six Sigma Green Belt | **Abacus** | Rochester, NY

2016

Certified Supply Chain Professional (CSCP)

2015-2020