

Eric J. Rich

Engineering Innovation Specialist

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Summary

A versatile technology professional with expertise in **IT engineering**, **technology integration**, **CNC machining**, and **custom fabrication**. I specialize in **process optimization**, **LEAN manufacturing**, and **product development**. Proficient in **CAD systems**, **3D printing**, and **R&D**, I provide practical solutions with a hands-on approach, guiding teams and solving complex challenges in technical environments.

Core Competencies

- **IT and Technology Integration:** Experienced in system setup, optimization, and security across DOS, Windows, and Linux, with proficiency in Bash, HTML5, CSS, and JavaScript.
- **Product Development & R&D:** Hands-on contributor in product development, managing projects from idea to execution with a focus on **creativity** and **performance optimization**.
- **Maker Mentality & Problem-Solving:** Adept at leveraging tools like CNC machines, CAD systems, and **3D printing** to deliver innovative solutions for custom fabrication and manufacturing challenges.
- **Process Optimization & Lean Manufacturing:** Proficient in applying **LEAN principles** to enhance process efficiency, reduce waste, and optimize tool life and cycle times.
- **CAD & Technical Documentation:** Advanced skills in **CAD software** for precise fabrication, design, and documentation of technical projects.
- **Automotive Diagnostics & Home Maintenance:** Knowledgeable in automotive electrical/mechanical diagnostics and repair, as well as home and building maintenance tasks like plumbing and electrical work.
- **Teaching & Mentorship:** Skilled in teaching and mentoring, simplifying complex processes to help teams and individuals grow and succeed in technical environments.

Experience

Freelance Contractor, R&D, and Startup Collaboration - EJRCNC (2020–Present)

Engaged in various freelance and contract work, including **electrician**, **handyman**, **tech support**, and **consulting** services.

Applied **CNC machining**, **3D printing**, and **custom fabrication** to solve unique challenges, such as creating custom parts for clients with specialized needs.

Collaborated with **startups** and contributed to **R&D projects** involving process development and product innovation (under NDA).

Proficient in **system migration**, **network setup**, **script design**, and **media crafting** for client-focused solutions.

John R. Bromiley Machine Shop - CNC Setup/Programmer (2017-2020)

Developed custom macro templates and optimized programming for military-grade products. Specialized in precision CNC machining and **tool life optimization**.

Globus Medical - CNC Machinist (2015-2017)

Manufactured tight tolerance **spinal implants** and ensured high-quality output through in-process inspections and collaboration in a team environment.

Scientific Instrument Services - CNC Machinist (2012-2015)

Manufactured high-precision **scientific instruments** and **medical parts**, including programming OGP SmartScope routines for faster inspections.

Edmund Optics - CNC Lathe Operator/Programmer (2008-2012)

Produced **military-grade night vision components** and specialized in **aspheric lens production** for military applications.

MGP LLC (SGL Carbon Group) - CNC Operator/Programmer (2006-2008)

Operated FANUC lathes and produced **high-quality components** for **aerospace** and **energy** sectors, including **Tomahawk missile parts**.

H. Shoemaker Welding and Machine Shop Inc. - CNC Lathe Operator (2004-2006)

Produced a wide range of parts using different CNC lathes for various industrial applications.

Micro-Coax Inc. - CNC Lathe Operator (Swiss: Star & Citizen) (2003-2004)

Manufactured parts for high-end coaxial cable connectors using Swiss lathes.

Creative House International - Machine Maintenance & Setup (2000-2003)

Performed machine maintenance and setup for cookie cutter manufacturing processes, ensuring smooth and efficient production.

Education & Certifications

EZ-GUIDE Programming (DOOSAN) - 2019

Mastered DOOSAN's EZ-GUIDE system for CNC optimization.

LEAN Level One Certification (DVIRC) - 2014-2015

Proficient in LEAN methodologies for process improvement and waste reduction.

CNC Training Program (MCCC) - 2009

Extensive training in CNC operations and precision machining.

Drafting Technology & Metal Tech (WCTS) - 2001-2003

Strong foundation in CAD systems and metalworking techniques.