

Eric J. Rich

Engineering Innovation Specialist | CNC & Fabrication Expert | Open-Source Advocate

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About Me

Hey there! I'm Eric, and I'm all about finding creative solutions to tough problems. Whether it's CNC machining, 3D printing, or figuring out how to get that one stubborn project over the finish line, I love rolling up my sleeves and getting things done. I'm passionate about working with teams and making ideas come to life, whether it's hardware, software, or somewhere in between. My approach is hands-on, and I'm always learning something new to keep things fresh. Let's build something awesome together!

What I'm Good At

- **Fabrication & Product Development:** I've got a knack for CNC machining and 3D printing, and I love combining hardware and software to create cool, practical solutions.
- **Creative Problem-Solving:** I'm always up for a challenge and enjoy thinking outside the box to find the best way forward.
- **Lean & Efficient Processes:** I believe in working smarter, not harder. I use Lean principles to reduce waste and make workflows more efficient.
- **Technical Design & Documentation:** I've worked with CAD systems and technical docs, making sure the process from design to production is smooth and easy to follow.
- **Always Learning:** I'm constantly picking up new skills to keep my toolbox full, from programming to new fabrication techniques.
- **Team Player & Mentor:** I love working with others, sharing what I know, and helping people grow in their skills—after all, teamwork makes the dream work.

Where I've Been

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

I've worked on all kinds of projects, from electrical work to tech support and custom fabrication. Whether it's building custom hardware or finding ways to integrate software with machines, I've got a wide range of experience.

I've had the chance to collaborate with startups and contribute to R&D projects, always learning something new along the way. I also mentor teams to help them grow, and it's been incredibly rewarding.

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

Here, I developed custom CNC programs and worked on military-grade products, optimizing tool life and reducing cycle times to make things run smoother.

Globus Medical – CNC Machinist (2015-2017)

At Globus, I worked on tight tolerance spinal implants. It was all about precision and teamwork, making sure everything was up to spec and running efficiently.

Scientific Instrument Services – CNC Machinist (2012-2015)

I managed up to five CNC machines and even developed custom programs. Plus, I mastered OGP SmartScope routines to streamline inspection processes.

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

At Edmund, I produced military-grade night vision components, ensuring top-notch quality through advanced lens production techniques.

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

Developed aerospace and energy components, including Tomahawk missile parts. It was all about precision and making sure everything was just right.

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

Worked on a wide variety of parts for industrial machinery and aviation using CNC lathes. No two projects were the same, and that kept things exciting!

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

Specialized in high-end coaxial cable connectors, using Swiss lathes to ensure precision on every part.

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

Set up and maintained machines for cookie cutter manufacturing. Yep, even cookie cutters need some engineering love!

Education & Certifications

EZ-GUIDE Programming (DOOSAN) (2019)

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

LEAN Level One Certification (DVIRC) (2014-2015)

Learned Lean methodologies to improve processes and reduce waste.

CNC Training Program (MCCC) (2009)

Extensive training in CNC operations and precision machining.

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

Developed a strong foundation in CAD systems and metalworking techniques.

For more info, feel free to visit ejrcnc.com or check out my work at github.com/ericjrich. You can also reach me at ericjrich@gmail.com. Let's chat!