



**Bryan Woodbury, EIT**

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## **Objective**

Apply my Mechanical Engineering skills to contribute to the success of my employer.

## **Skills**

- Designing, engineering, CNC machining, 3D printing, fabricating, welding, sheet metal design, automotive design/ manufacture/repair/upgrade, programming, electronics, electricity, plumbing, construction, and casting.
- Proficient in the following programs and languages: SolidWorks, Inventor, ANSYS FEA, PLC Ladder Logic, MATLAB, AutoCAD, Photoshop, Illustrator, QuarkXPress, LaTeX, HTML/PHP/CSS, XML, Acrobat Pro, and Microsoft Office.

## **Education**

**Mechanical Engineering (Bachelor of Science), Eastern Washington University, Cheney, WA** 2010-2013

- Proficient in Robotics, FEA, CNC, SolidWorks, Mechanics, Machine Design, Material Testing/Selection, and HVAC.
- Successfully designed and built FANUC 'RC Painter' and Robix 'Brickbot' robots in small teams.

**Physics, Technology (Running Start), Eastern Washington University, Cheney, WA** 1995-1999

- Tutored Physics and Engineering. Led First Place team in Human Powered Paper Vehicle engineering competition.

## **Relevant Experience**

**Mechanical Engineer, Omega Pacific, Airway Heights, WA** 2015-2016

- Improved tooling and manufacturing processes for in-house cold forging, trimming, punching, riveting, and bending.
- Developed and improved carabiners and rock climbing protection equipment for recreation, safety, and rescue applications.
- Inspection, analysis, modeling, and reconstruction of parts, prototypes, and tooling with CMM, laser, and tensile tester.

**Mechanical Design Engineer, Pearson Packaging Systems, Spokane, WA** 2013-2015

- Design for manufacturing: Designing, modeling, and drawing machines and components in Autodesk Inventor for in-house Lean manufacturing. Machine owner of high-speed case sealer. Floor support for all machines and robots as needed.
- Creating and using tools to perform motion/cycle analysis on high-speed machines and to present technical reports.
- New machine research and development: designing, prototyping, and testing.
- Automated system design and integration, including project management and working with customers and consultants.
- CAD system administration/database management and problem solving.
- Continuous Improvement of product designs and engineering and manufacturing processes, leading to department awards.

**Robotics Lab Teaching Assistant, EWU** 2012-2013

- Provided assistance, training, and motivation to students working on robotics projects.
- Introduced and taught usage of discrete power transistors for use in robotics/automation projects.
- Solved a wide variety of issues quickly and flexibly using my skills in electronics, electricity, programming, fabrication, pneumatics, plumbing, construction, troubleshooting, safety inspection, robotics, and automation.
- Repaired broken robot components, ordered electromechanical devices and parts, solicited and obtained donations.

**Vice President/Co-Founder, Commuter Cars, Spokane, WA** 1998-present

- Designed, engineered, patented, and manufactured the Tango high-performance narrow electric car with partner.
- Researched, sourced, and acquired parts for vehicle development and manufacturing, finding best products and prices.
- Managed servers, computers, and network for engineering, production, and office staff.

## **Professional Experience**

**Systems Administrator, Integrated Composition Systems, Spokane, WA** 1994-2010

- Responsible for researching, procuring, setting up, maintaining, troubleshooting, supporting, and repairing network of 20 Macintosh desktops, laptops, and servers as well as several Windows and Linux servers and workstations.
- Designed, implemented, and maintained 40-node Gigabit and wireless networks and firewalls with Prepress equipment such as printers, scanners, imagesetters, and digital business phone system.
- Operated all Prepress and Book Composition equipment and software and trained employees in their proper use.

## **Professional Affiliations, Leadership, and Activities**

**SME (Manufacturing Engineering): Secretary, Chapter 248 (Gold Status), Spokane, WA** 2010-Present

**ASME: Co-Chair, EWU chapter; Secretary, Inland Empire section** 2010-Present

**EWU ASME Robotics Club: Chair, Cheney, WA** 2011-2013

Lead Robot Inspector, machinist/welder, and planning committee volunteer for regional FIRST Robotics competitions.

Volunteer judge, inspector, trainer, and supervisor for Science Olympiad & MIT/Navy Sea Perch submarine competitions.

Touring various facilities to network and gain insight into professional industry and best practices.