

SCOTT A. NOBLE

NOBLE HARDWARE LLC

DESIGN, ENGINEERING, FABRICATION

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SUMMARY

Mechanical Engineer with 22 years experience managing the design of automated machinery and custom products, with short time-lines and limited budget. Skilled in simplifying designs and applying new technology to reduce costs and add value to products. Experienced in industrial, surgical, military & aerospace, consumer products, and water process industries.

PROFESSIONAL EXPERIENCE

Noble Hardware LLC, Denver, CO – Mechanical Engineering design firm, specializing in automation design, product-development, and prototyping

Owner and Lead Mechanical Engineer – January 2014 – Present

Noble Hardware LLC, Denver, CO – Manufacturer and retailer of parts and accessories for the rowing and sculling market

Owner – June 2005 – December 2014

- Developed large and varied product line. Manufactured, assembled, and shipped products to customers
- Maintained accounting, cost of goods sold, and P&L information.
- Developed marketing plan and executed online and print advertising, social media campaign, and e-mail marketing.

Adaptive Innovations Corp, Lakewood, CO – Manufacturer of custom automated machinery and test fixtures

Senior Mechanical Engineer – March 2012 – August 2013

- Lead conceptual design and engineering of \$2M LED bulb assembly system, involving two conveyor systems, seven robots, and several hundred I/O points
- Established design concepts and proved out ideas with prototype systems.
- Gave direction to staff of ten mechanical and electrical engineers.
- Responsible for assembly, integration, troubleshooting, and installation.

AdamWorks Inc, Centennial, CO – Manufacturer of custom composite parts and systems for the aerospace and defense industry

Senior Mechanical Engineer – Jan 2010 – March 2012

- PoWER - Designed and manufactured DARPA-sponsored “Portable Wind Energy Recharge” – an 11 lb back-packable carbon fiber wind turbine. Design exceeded DARPA expectations and maintained a 50% profit margin.
- Lead mechanical engineer on multiple \$2M+ aerospace projects. Led teams of 3-4 junior engineers and technicians.
- Managed in-house CNC machining department. Improved and maintained 3-axis router. Developed 3D tool-paths for master machining, and improved machine tolerance from +/- 0.060” to +/-0.015”.
- Pioneered hollow part manufacture in matched aluminum tools. Developed removable silicone mandrels and permanent structural foam cores.

WSI International, Centennial, CO - Manufacturer of custom wastewater and environmental products.
Chief Mechanical Engineer, March 2008 to Jan 2010

- Managed the design and manufacture of all new pieces of equipment including: DAF units, fiber-ball filtration skids, integrated BCR systems, and modular wastewater-treatment packages.
- Maximized quality, design for manufacturability, and low down-time, while ensuring price-point to customer was met.

TriStar Systems Inc., Arvada, CO – Manufacturer of custom automated machinery.
Senior Mechanical Engineer, Jan. 2006 to March 2008

- Directed the design, manufacture, and commissioning of four high-precision calibration machines for mass-flow meters. Machines were delivered on tight timelines with few commissioning problems and high customer satisfaction.
- Designed bulk feeding disk drive system for disk test station, resulting in US Patent #20090262445
- Managed budget and negotiated ECO additions with customer to ensure profit targets were met.

Merilab Inc., Englewood, CO – Tier One supplier of custom wheel and headlamp alignment equipment for the automotive industry.

Lead Mechanical Engineer, July 2004 to December 2005, and May 1998 to July 2000

- Redesigned and simplified wheel alignment machine. Removed \$75,000 of materials and labor from \$400,000 machine, while improving durability and ease of repair.
- Implemented part numbering and document control system that decreased manufacturing and purchasing errors by 45%. Reduced machine build cycle from 12 weeks to 8 weeks.

SKYDEX Technologies, Inc. – Start-up company selling a tunable cushioning technology. Product replaces foams and rubber components in high-impact applications such as helmets and footwear.

Applications Engineer, July 2000 to October 2003

- Designed and built automated machine for cutting to length rolled plastic film. Utilized compressed air systems and simple PLC controls. Reduced cutting time from one hour per roll to 5 minutes, and reduced labor from two persons to one.
- Pioneered the use of rapid prototype materials for constructing sample vacuum forming molds. Reduced mold costs and lead times by a factor of 10.

T.A. Pelsue Co., Englewood, CO - Manufacturer of utility equipment including ventilators, shelters, and custom service vehicles for the telephone service industry. Senior Design Engineer, Mobile Equipment, June 1996 to March 1998

TECHNICAL SKILLS

- Expert user of SolidWorks parametric design software (17 years).
- CNC machinist and fabricator, with experience using HSM Works, MasterCAM X3, and G-Code machining code.
- Capable welder of steel, stainless steel, and aluminum using TIG and MIG methods.
- Knowledgeable in sheet metal fabrication using CNC turret punch presses and CNC lasers.
- Skilled in the design and manufacture of plastic and composite materials.
- Well-versed in ISO-9001 and QS-9000 quality systems. Trained in Internal Auditing and techniques for assessing component reliability and maintainability.
- Trained in Verisurf X5 measurement software and FARO inspection arms.

EDUCATION

University of Colorado at Boulder, BS Mechanical Engineering - May 1996
Lancaster University, England, 1994-1995, Junior-year study abroad program.