

STEVEN L. HENDERSON
Mechanical/Product Design & Manufacturing Engineering
Loveland, Ohio
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SUMMARY

Creative, resourceful and organized individual with 23 years professional experience in mechanical engineering design and product development for the medical and consumer markets, as well as production equipment design. My experience has afforded me the opportunities to develop products and machines comprised of weldments, machined parts, injection molded plastic parts, die-cast parts, sheet metal components, as well many other manufacturing processes. I am prepared for any challenge and anxious to contribute my diverse skills to a progressive organization.

Specific skills include:

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| - Project Tracking/Administration | - Supplier Management | - Resource Networking |
| - Reporting & Data Analysis | - Protocol Development | - Design Verification and Validation |
| - Pro/Engineer WildFire | - SolidWorks 2008 | - AutoCAD (2D Layout) |
| - Mechanical & Wet Lab Testing | - Analytical Troubleshooting | - GD&T (ASME Y14.5M-1994) |
| - Prototype Creation | - BOM Development | - DFM&A |
| - Goal Oriented | - Team Player, lead by example | - Professional Mentoring |
| - Six Sigma Green Belt Academic Credentials | - Equipment and Process Qualifications (IQ, OQ, PQ) | |

PROFESSIONAL EXPERIENCE

AtriCure Inc, (Previously ENABLE Medical) West Chester, Ohio

2005 - Present

Sr. Designer

- Responsible for leading engineering efforts to develop, analyze, execute & support new product development and to implement product line improvements. Responsibilities range from creating Quality Plans, CAD Design, Supplier Management, Protocol and test plans, Inspection strategies, and Device Verification and Validation.
- Work with internal manufacturing resources and external suppliers to promote efficient and correct building and validation of designs.
- Identified company wide initiatives such Quality System upgrades to accommodate business dynamics due to 25% growth per year and to solidify regulatory compliance.
- Identify opportunities to improve manufacturing capacity of existing products, such as product redesign from tedious assembly to insert-molded device, saving many hours of labor and scrap to more robust device.
- Utilize Lean manufacturing and Six Sigma methods to promote efficient processes to manage variation and minimize scrap.

Contract Design Assignments, Cincinnati, Ohio

2003 - 2005

Engineering Design Consultant

- Developed creative solutions for automotive industry component logistic trays (transport, storage, and process) and generated injection molding bases and cores utilizing SolidWorks.
- Collaborated with Proctor and Gamble researcher, marketing and industrial design team for development of electronic consumer cleaning device by generating 3D computer models to produce SLA models for marketing review.
- Developed automated packaging production equipment for Proctor and Gamble feminine hygiene products division.
- Designed electronics packaging for a high power digital television transmitter for Harris Corporation in Mason Ohio.

E-PRIME LLC, Blue Ash, Ohio

2001 - 2003

Principal Designer

- Developed new tendon repair device by creating 3-D database models that were used by mold makers to create components. Using SolidWorks 2001 and generating neutral 3D files, rapid prototype parts were developed to prove form, fit, function, and manufacturing feasibility.
- Worked as a collaborative group to develop innovative medical products from the conceptual and FMEA (Failure Mode & Effect Analysis) stages to product development design, testing, and packaging.
- Provided design solutions to Surgeons to develop their Intellectual Property for new devices to be used for inventive surgical techniques by taking their base concepts from a feasibility stage to market-launch preparedness. New product concepts have included endoscopic and orthopedic devices.

INNOVATA INC., Fairfield, Ohio

1999 - 2001

Senior Designer

- Redesigned luxury boat refrigerator to lower unit cost and enhance features and increase performance.
- Led design efforts of automated part inspection station by creating 3-D layouts using Pro/E software to demonstrate machine's features and functionality to the client. Initiated and completed detailed design efforts for delivery to production shop for build.

ENABLE MEDICAL CORPORATION, West Chester, Ohio

1996 - 1999

Designer

- Contributed to the development of transferring RF energy through surgical scissor, allowing surgeons to cauterize blood vessels while cutting tissue.
- Provided design and engineering support, patent research, lab product testing, prototype development, 3-D iges files for rapid prototyping parts, mechanical components testing, and materials research.

BELCAN ENGINEERING SERVICES, Cincinnati, Ohio

1993 - 1996

Designer (D2) (Assigned to BGP Services)

- Led design development of encapsulation conveyor for Proctor and Gamble International diaper lines.
- Performed supplier inspections and provided construction field support for fabrication and installation of web splicing delivery equipment.

Designer (Assigned to Liebel Flarsheim)

- Completed Assembly drawings of Hydradjust Urology X-Ray Table to meet FDA requirements for market release.
- Designed accessories for aforementioned surgical table.

ETHICON ENDO-SURGERY, Blue Ash, Ohio

1991 – 1993

Product Development Designer

- Designed and detailed, from concept, market dominating Endo-Scopic hernia repair instrument.
- Implemented, directed, and instructed 3D CAD training courses for manufacturing employees, which saved the company several hundred thousand dollars in outsourcing design and drafting resources.
- Developed proficiency in creating 3-D wire frame, NURB surfaces, and Solid models of plastic components.

CAMPBELL HAUSFELD, Harrison, Ohio

1988 - 1991

Layout Draftsman

- Created layouts, stack-ups, and details of consumer air compressors.
- Studied and completed Boothroyd-Dewhurst Design for Assembly (DFA/DFM) training seminars.
- Completed advanced applications of ANSI Y14.5M - 1982 GD&T course given by Technical Consultants Inc.

EDUCATION**University of Cincinnati** - College of Applied Science, Cincinnati, Ohio

Continued education towards a Bachelor's of Applied Science in Mechanical Engineering Technology. (evening courses)

Cincinnati Technical College, Cincinnati, Ohio**Associates of Applied Science- Mechanical Engineering Technology.**