

SUMMARY**Mechanical Engineer**

- 13 years' experience in Mechanical Engineering and Design, Manufacturing and Documentation
- Design from conception through parametric CAD modeling and drawing creation
- Process Engineering Change Orders (ECOs), Requests for Quotes (RFQs) and maintain parts lists
- Solidworks (3 years), ProEngineer (11 years), AutoCAD (9 years), Intralink/PDM (11 years)

RECENT ENGINEERING EXPERIENCE

EndoEvolution, Raynham, MA (Consultant) 2017 - Present
Product Engineer / Mechanical and manufacturing support of the Endo360° laparoscopic suturing device.

- Manufacturing solutions: added spring to device to prevent cable breakage at tip; developed test protocol and extensively tested this solution to ensure ISO 13485 compliance.
- Validated production inspection method that reduced machining steps of a microscopic part.
- Organized cluttered Solidworks database from multiple spots to one directory. Assembled 80+ part assembly models. Designed configurations of parts and assemblies. Updated drawings.
- Evaluated incoming inspection of products. Designated damaged devices for specific repairs.
- Documented repair procedures with photos. Created and implemented ECOs. Processed RFQs.
- Led weekly team meetings and conference calls with partners and suppliers.
- Updated Graphic Design documents with Adobe InDesign, Photoshop and Illustrator.

Nova Medical, Wilmington, MA (Contract) 2017
Mechanical Drafter / Created assembly instruction drawings for MRI Coil using AutoCAD and photography.

MicroGroup, Medway, MA (Contract) 2016
Cutting Machine Operator / Setup, operation, and quality control of CNC and manual Electro Chemical Cutting Machines, which cut small stainless-steel tubes to size for use in medical products.

OfficeTeam, MetroWest, Boston, MA 2015 - 2016
Staples, MetroWest, Boston, MA 2012 - 2014

GRAPHIC DESIGN EXPERIENCE

All for the Lord Graphic Design, Still River, MA 2008 - 2012
Graphic Designer / Incorporated freelance company. Marketed and networked for business. Designed professional solutions and supervised vendor selection and printing for clients. Created collateral: brochures, postcards, ads, tee shirts, logos, cartoons and websites, using original and stock photography.

PAST ENGINEERING EXPERIENCE

Medica, Bedford, MA (Contract) 2007
Mechanical Detailer / Processed ECOs, created assembly drawings and parts lists for blood gas analyzers.

InDepth Design, Lawrence, MA (Contract) 2006 - 2007
Mechanical Designer / Left principal time to conceptualize and consult with clients while I led the design and detailing of two semiconductor projects. Supervised a second drafter and assisted with design reviews.

Raytheon, Marlborough, MA 1999 - 2006
Mechanical Engineer / Designed, modeled, documented and supported manufacture of radar equipment.

- Led an interdisciplinary team to design an electro mechanical assembly by selecting off the shelf components to cut unit costs by \$1,000 from initial machined design.
- Streamlined synthesizer frame design and documentation process from eight to four weeks.
- Designed tempest keypad assembly with brazed case and off the shelf parts. Negotiated vendor tooling charges and prices. Researched and selected EMI gaskets and display windows.

Schwarzkopf, Franklin, MA (Contract) 1998 - 1999
Mechanical Designer / Led design and documentation of 200+ part heat shield products.

Various Companies, MetroWest, Boston, MA (Contract Positions) 1996 - 1998
Mechanical Designer / Modeled and documented laser products, semi-conductor equipment and robotics.

CERTIFICATIONS

- Certified Solidworks Associate (CSWA Certificate #C-EZPHUFKUWD)

EDUCATION

Tufts University – School of Engineering: 1995
• Bachelor of Science in Mechanical Engineering, Magna Cum Laude

WPI + MassMEP: 2016
• Advanced CNC Skills Training – Learned MasterCAM, operation of Haas CNC mills / lathes.

MassBay Community College: 2016 - 2017
• Led team on a camera arm design project and 3D printed prototype for SMC Ltd.
• Designed and printed an assembly that held plastic parts during bead blasting for SMC Ltd.
• Applied Solidworks parametric modeling and detailing on these projects.
• Learned an overview of Solidworks plastics, sheet metal and surfacing methods.

Quinsigamond Community College: 2015 - 2016
• Learned and used Solidworks to create assemblies, parts and drawings. Obtained CSWA certificate.
• Used AutoCAD to create 2D mechanical drawings.

Mount Wachusett Community College: 2011
• Associate of Science in Computer Graphic Design, Highest Honors

VOLUNTEERING

Charity Fundraisers, MetroWest, Boston, MA
Fundraiser / Raised \$27,750+ over 18 years: walks, bike rides and runs for hunger, homelessness, cancer, veterans and mental health.

INTERESTS

Electronic music, writing, cartooning, art, philanthropy and faith

www.AllfortheLord.com