

**SUMMARY****Mechanical Engineer**

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- 12 years' experience in Mechanical 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**

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

- Organized cluttered Solidworks database from multiple spots to one directory. Assembled 80+ part assembly models. Incorporated configurations to parts and assemblies. Updated drawings.
- Solved manufacturing problems: validated pawl production inspection method that reduced machining steps. Added springs to device to eliminate drive cable fraying and breakage.
- Evaluated incoming inspection of products. Designated damaged devices for specific repairs.
- Documented manufacturing procedures for device modifications and needle fabrication. Created, filed and implemented ECOs. Processed RFQs. Quality documentation. Led conference calls.
- Engineering support for due diligence process that led to successful acquisition of EndoEvolution.

**Nova Medical**, Wilmington, MA (Contract) 2017  
Mechanical Drafter / Created assembly instruction drawings for MRI scanner head coils using AutoCAD.

**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 + Staples**, MetroWest, Boston, MA 2012 - 2016  
Various positions / Part-time work while taking engineering classes that included real-life design projects.

**GRAPHIC DESIGN EXPERIENCE**

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**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**

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**Medica**, Bedford, MA (Contract) 2007  
Mechanical Detailer / Led the incorporation of ECOs, assembly drawings and parts lists for medical devices.

**InDepth Design**, Lawrence, MA (Contract) 2006 - 2007  
Mechanical Designer / Led the design and detailing of semiconductor equipment leaving principal more time to conceptualize and consult with clients. Assisted client design and progress 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 / Designed and documented laser products, semi-conductor equipment and robotics.

## CERTIFICATIONS

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

## EDUCATION

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**MassBay CC, Quinsigamond CC, WPI + MassMEP (Professional Development):** 2015 - 2017

- Solidworks – Parametric solid modeling; part and assembly detail drawings; plastics, sheet metal and surfacing. Led camera arm design project for SMC Ltd and created 3D printed prototype.
- Advanced CNC Skills Training – MasterCAM, operation of CNC mills / lathes.
- AutoCAD – 2D Mechanical drawings.

**Mount Wachusett Community College:** 2011

- Associate of Science in Computer Graphic Design, Highest Honors

**Tufts University – School of Engineering:** 1995

- Bachelor of Science in Mechanical Engineering, Magna Cum Laude

## VOLUNTEERING

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**Financial Peace University – Personal Finance Classes**, Mt. Calvary Lutheran Church, Acton, MA  
Small Group Facilitator / Lead classes on Dave Ramsey's seven baby steps to avoid debt, save and give.

**Charity Fundraisers**, MetroWest, Boston, MA  
Fundraiser / Raised \$25,000+ over 17 years: walks, bike rides and runs for hunger, homelessness, cancer, veterans and mental health.

## INTERESTS

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

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