

# Bryon M Morse

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## Summary

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Extensive 3D CAD and 2D Drawing Experience Within Design and Manufacturing. Mechanical designer with a passion for product design, product creation, problem solving and helping others. Over twenty years of experience providing technical design support for manufacturing medical implants and instrumentation. Experienced with gathering user needs, creating models, producing manufacturing drawings, generating prototypes, and conducting mechanical testing. Hands-on experience with machine shop tools and equipment. Proficient with numerous CAD tools and ERP software (Creo, Autodesk Inventor, AutoCAD, SolidWorks, SAP, Windchill/PLM). Creative and innovative designer with multiple patent applications and grants.

## Experience

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### **Acumed LLC, Hillsboro, OR**

Product Designer Level 4,  
Designer/Draftsmen,  
Subcontractor Quality Technician,  
*Some Duties included*

*Dec. 2005 to Nov. 2020*  
*Dec. 1998 to Dec. 2005*  
*March 1998 to Dec. 1998*

- Created complete 3d models, drawings, specifications (ASME Y14.5 / GD&T), and related documents required to produce products.
- Researched product designs, literature, intended use(s), and competitive landscape for new and/or existing product lines.
- Served as Additive Manufacturing SME (selecting, purchasing, training, and maintaining).
- Created and developed designs for potential new and improved product lines and documented the design and development.
- Conducted design verification and validation activities on new and existing products.
- Maintained existing product designs through ECOs, NCMRs, product feedback, etc.
- Communicated with supervisor, internal departments, vendors, and developed new product relationships with customers (e.g. surgeons).
- Independently manage multiple projects, led cross-functional project teams, and served as the engineering resource for new product introduction teams.
- Mentored and delegated tasks to engineers, product designers, mechanical drafters, and interns.
- Created, approved, and conducted test/test reports.
- Performed patent analysis and patent application review.
- Served as engineering technical expert/resource.
- Led/assisted in setting up and maintaining engineering labs.

### **TecWood Williams \ Northwest Draftsmen, Oregon**

Subcontracting Draftsmen  
*Duties included*

*1996 to 1998*

- Converting mechanical blueprints to computer, using AutoCAD R14
- Delegated tasks/prints to other drafters.
- Updated, reviewed, and corrected prints.

### **B-Line Systems, Tigard, OR**

Temporary Drafter  
*Duties included*

*April 1997 to Dec. 1997*

- Converting blueprint drawings to computer, using AutoCAD R13
- Creating bills of materials for assemblies, checking for correct parts and quantities

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## Skills/Accomplishments

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### Software:

- Creo / ProE PTC (9 years) 2011-2020
- Windchill (PLM/PDM) 2012-2020
- AutoCAD (20+ years) 1992-2012, off and on to 2020
- Autodesk Inventor (13+ years) 1999-2012, off and on to 2020
- SolidWorks (2 years) 2002-2004, off and on to 2020
- Others programs/app (FEA, SAP, Microsoft Excel, Word, Power Point, Teams...)

### Patent and/or Patent Application:

<https://patents.google.com/?inventor=bryon+morse&oq=bryon+morse>

- JP2020/011090A - Bone plate with movable joint, Published Jan. 23, 2020 Status Pending
- US 2016/0220378A1 - Elbow Arthroplasty Apparatus, System, and Method, Published Aug. 04, 2016 Status Pending
- US 8206389 B2 - Rod-based system for bone fixation, Granted June 26, 2012
- US 7914532 B2 - Orthopedic rod with locking aperture, Granted March 29, 2011

### Certifications for Courses/Trainings Completed:

- Geometric Dimensioning and Tolerancing Applications
- Fundamentals of Geometric Dimensioning and Tolerancing
- Autodesk Inventor course
- Risk Analysis/FMEA for the Medical Device Industry
- Eden 333 and Connex 500 Training
- FDM/QuickSlice Training
- Time Management and Organizational Skills
- Communicating for Teamwork
- The Better Business Writing Workshop
- Lockout/Tagout, Hazardous Communication, Personal Protection Equipment, and Bloodborne Pathogens

### Manufacturing Knowledge:

- Manufacturing Machines: Mills (5 Axis, manual...), Lathes, Laser Welders, EDM, tooling...
- Laser Marker, 3d printers (Markforged, Objet, Stratasys...), Test Machines (Instron, Chatillon...)
- Processes: Injection molding, casting, finishing, anodization, Electropolishing, other coatings...
- Inspection Processes/Equipment: CMM, Vision System, Comparators, Mic, Pins, Calipers...

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## Education

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### Some College course taken at

**Clackamas Community College (1995-1997) and Mt. Hood Community College**

“Mechanical Engineering Technology” two-year Associates Degree

**Klamath Union High School, Klamath Falls, OR 97601**

Four years, Graduated with diploma

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## Interest

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Some of my interest includes kayaking, camping, hiking, wood crafting, golfing, and racquetball....