



EMPLOYMENT:

Engineering and Technology Department, University of Wisconsin-Stout, Menomonie, WI 54751

Senior Lecturer August 2013 to present, Lecturer, August 2010 to July 2013. Responsible for development and delivery of courses including ME/MFGE-410 Capstone II Senior Design, ENGR-280/ETECH-420 Engineering Graphics Applications, ENGR-210/ETECH-210 Engineering Graphics Solid Modeling, MFGE-441 Design of Jigs and Fixtures, and MFGE-351 Manufacturing Process Engineering I. Member of Manufacturing Engineering and Mechanical Engineering program Advisory Board.

Chippewa Valley Technical College, Gateway Campus, 2320 Alpine Road Eau Claire, WI 54703 Adjunct Faculty, January 2013 to May 2013, June 2012 to December 2012, August 2011 to December 2011. Responsibilities include course development and course delivery.

Remmele Engineering, Contract Manufacturing Division, 17465 198th Ave. Big Lake, MN 55309

Senior Design Engineer, Design Engineer. Contract engineering design and manufacturing, typical markets served are commercial, aircraft, space, and radar systems. Responsibilities include: Supervisor of research and development department; create, organize, and manage development and prototype initiatives, execute strategies to solve customer problems and expand market presence. Manage complex workload for variety of CNC and manual milling and turning machines. Lead technical interaction between Remmele Engineering and customers during engineering design and initial manufacturing process. Provide leadership to design teams. Develop mechanical solutions and drive technical design process and manufacturability to ensure structures meet design requirements. Provide daily design assistance to all departments in the form of teaching effective engineering communication, design methods, process development, and engineering practices. Review and provide feedback for customer detailed drawings. Write documentation helping to shape the strategic direction of the Design Engineering and Research and Development departments in the Aerospace and Defense Division. Engineering staff mentor. Site SolidWorks resource. Corporate Geometric Tolerancing resource.

University of North Carolina at Charlotte, 9201 University City Boulevard, Charlotte, NC 28223

Research Assistant Initiate development of a small-scale power system and provide engineering expertise to other department projects as required. Responsibilities included: Develop project research direction, literature searches, general department research, procurement, design, assembly, and provided design and manufacturing expertise to other department projects.

Teaching Assistant Responsibilities included: Develop answer key and correct papers for Manufacturing Systems class. Teach Machine Vibrations and Systems classes when needed.

Remmele Engineering, General Machining Division., 10 Old Highway 8 S.W., New Brighton, MN 55112 and Repetitive Batch Mach. Div. Monticello, MN.

Manufacturing Engineer, Associate Manufacturing Engineer, and Manufacturing Engineering Co-op Contract manufacturing engineering development and production. Projects consisted of build to print aircraft tooling, aircraft structural components, control and actuator housings for variety of markets. Responsibilities included: Develop manufacturing processes and procedures for manufactured components and assemblies for project startup and production. Provide design support, develop processes, develop machining strategies, develop project routings, initiate procurement, provide full manufacturing and project support throughout manufacturing. Primary assignments included: development and follow up of all manufacturing processes required for part and assembly manufacturing, special R&D projects, tooling and fixture design and implementation, and managing project technical requirements. Site SolidWorks resource.

EDUCATION:

Master of Science in Mechanical Engineering

University of North Carolina at Charlotte
9201 University City Boulevard
Charlotte, NC 28223-0001
August 2003 to May 2005, GPA 4.0

Bachelor of Science in Manufacturing Engineering

University of Wisconsin-Stout
Menomonie, WI 54751-0790
August 1996 to December 1999
Mathematics Minor, Summa Cum Laude

EXPERIENCE:

Extensive engineering design experience:

- Precision machine design
- Design complex radar components, assemblies, and structures.
- Interpretation and evaluation of design requirements.
- Develop engineering trade studies.
- Manage collaborative bi-directional engineering design teams.
- Design for manufacturing approach to design process.
- Development of locating and fastening theory for a variety of large structures and complex assemblies.
- Develop and execute assembly tolerance stack-up analyses.
- Certified SolidWorks Professional (CSWP) Solid Modeling Specialist certification.
- Development and review of engineering drawings, GDTP Senior certified. Final reviewer for customer data.
- Develop company standards for Design Engineering and Research and Development.

Extensive manufacturing process design experience:

- Component manufacturing processes.
- Large assembly manufacturing processes.
- Interpretation of design and manufacturing requirements.
- Jig and fixture design and implementation.
- Difficult tolerance, highly complex machined parts design and manufacturing.
- Tight tolerance, complex assemblies.
- Complex welded assemblies.
- Sheet metal assemblies.
- Coating and finishing processes.
- Application of lean principals.
- Test plan development and execution.

Computer software strengths:

- D2L and Blackboard online course management software
- Microsoft office/windows environment
- SolidWorks (>10,000 hours)
- Catia V5, ProE, Unigraphics, Mastercam, and Autocad
- ANSYS workbench

Major strengths include:

- Technical course development and delivery.
- Proven record of effective teaching.
- Independent design engineering contracting, specializing in mechanical design, engineering communication, and tolerance analysis.
- Present engineering information to a variety of audiences.
- Supervisor of Research and Development.
- Complex department workload management.
- Leader and mentor to all levels of business and customers.
- Design for manufacturability.
- Machine, assembly, and component design.
- Manufacturing work holding and cutting tool design.
- Large (>10 ft square, 1000+ piece) assembly design management, mechanical design, and assembly development.
- Manufacturing process development.
- Manufacturing documentation development.
- Geometric Dimensioning and Tolerancing.
- Engineering design documentation for a global economy.
- Contract, work scope, and statement of work documentation development.

RECOGNITION:

- ASME Y14.5 Senior Geometric Dimensioning and Tolerancing Professional (GDTP).
- Certified SolidWorks Professional (CSWP) Solid Modeling Specialist.
- SME Certified Manufacturing Engineer and Technologist CMfgE, CMfgT.