

Job Title:	Mechanical Detailer	Original Date:	August 16, 2022
Department:	Engineering	Revised Date:	
FLSA Status:	Exempt	Approved By:	
		Reports to:	Design Engineer

BASIC PURPOSE

Responsible for managing and creating submittal and fabrication drawings from CAD models, review SolidWorks models for accuracy, and develop drawings and P&IDs to support sales opportunities and proposals.

ESSENTIAL DUTIES AND RESPONSIBILITIES

The following are the essential functions of the position. The list is not exhaustive and may be supplemented, as necessary.

- Review SolidWorks models for accuracy and completeness, especially related to potential assembly interference and third-party model dimension accuracy;
- Work with vendors and Application Engineer / Project Manager to source and confirm accurate 3D models with corresponding dimensional drawings;
- Work with Design Engineer to develop submittal and fabrication drawings and provide revision control of SolidWorks models;
- Assist in the creation and revision of AutoCAD P&IDs;
- Assist in maintaining stock product engineering documents including; submittal/sales drawings and product cut/data sheets;
- Assist in quality assurance review of products and creating as-built drawings;
- Assist in the creation and revision of SolidWorks and AutoCAD templates;
- Assist in managing the Mazzei CAD Library;
- Assist in creating Bill of Materials from SolidWorks models for material acquisition;
- Work with sales group and Application Engineering to develop sales drawings for proposal support and cost estimation;
- Achieve in depth knowledge of all Mazzei products/systems and applications;

JOB SPECIFICATIONS

The following are the knowledge, skills and/or abilities preferred or required to perform this job.

EDUCATION and/or EXPERIENCE:

- Minimum 3 years of working experience using SolidWorks or similar software. Preferred experience in manufacturing/fabrication setting.

SPECIALIZED KNOWLEDGE AND SKILLS:

- Proficient with SolidWorks 2015 or higher and AutoCAD 2004 or higher;
- Knowledgeable of ASME Y14.5 and other drafting standards;
- Strong technical knowledge;
- Works independently subject to general management direction;
- Microsoft Word & Excel.

EQUIPMENT & APPLICATIONS /WORKING CONDITIONS & PHYSICAL DEMANDS: Reasonable accommodations are possible to enable people with disabilities to perform the essential responsibilities.

- Requires use of PC;
- General office environment;
- High levels of stress often occur;
- Physical demands include those required in a general office environment and warehouse (use of PC's, sitting, stooping/kneeling, use of basic tools, reaching, handling, speaking, hearing and seeing).

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