



Design Engineer

Reports to: Engineering Manager

Department: Engineering

Division: Midstate Machine – Maine

Position Description

This position contributes to the growth and profitability of Midstate Machine, by developing and designing cost effective manufacturing plans based on customer design/specification requirements. This position works closely with sales, programming, manufacturing, tooling and materials groups.

Specifically, this position will:

1. Make operation sheets, drawings, and sketches for Manufacturing.
2. Design complete fixturing solutions for the manufacturing process.
3. Detail fixtures including component drawings, assembly drawings and bill of material lists.
4. Plan manufacturing process and create routings for designed components.
5. Requisition material, hardware and special services needed for designed components.
6. Provide 3D models and machine setup sheets for Programming.
7. Assist Sales/Estimating with customer supplied 3D content and fixturing theory.
8. Assist maintenance department with equipment repair design.
9. Create and maintain 3D simulations of machines and their capabilities.
10. Maintain departmental electronic content, design library and job folders.
11. Keep abreast of hardware and software upgrades and push system development.
12. Stay current with modern manufacturing and fixturing techniques.



13. Maintain a professional and personable relationship with superiors, peers and subordinates, being responsive to their needs, as well as those of the company.

14. Perform other duties or functions as requested by the Engineering Manager.

Essential Functions

1. Must have the ability to move freely among the shop floor including accessing machine platforms.

Qualifications

1. Strong math skills.

2. Machining experience or a comprehensive knowledge of machine operation and fixturing techniques.

3. Fundamental knowledge of blueprint interpretation and Geometric Tolerance & Dimensioning.

4. Basic knowledge of materials and stress calculations.

5. Previous C.A.D. (Computer Aided Design) experience or highly proficient with computers and software.