

## JOB DESCRIPTION

<b>TITLE:</b>	MECHANICAL ENGINEER	<b>COMPANY</b>	GORBEL INC.
<b>REPORTS TO:</b>	MECHANICAL ENGINEERING MANAGER	<b>DEPARTMENT</b>	PRODUCT DEVELOPMENT

### GENERAL RESPONSIBILITY

Conceptualize, develop, implement, and maintain new and existing product designs using sound mechanical engineering principles in support of company business development efforts, marketing plans and department plans. Analyze specifications, as well as business, technology & cost requirements, and implement appropriate, approved designs in a timely and cost-effective manner. Take steps necessary to ensure product reliability, performance, and customer acceptance.

### PRIMARY DUTIES

- Conceptualize and develop material handling products using sound mechanical engineering principles
- Adhere to suitable design and documentation practices and methodologies
- Develop and maintain cost projections against an established target throughout the development cycle
- Provide quality assurance for output as well as serving as a cross checking resource
- Supervise functional as well as accelerated life testing to ensure product reliability and performance
- Support customers in product use and application as required
- Support vendors in product and sub-component fabrication as required
- Adhere to project timelines and budgets
- Participate in PD department projects as assigned
- Participate on company teams as assigned

### SECONDARY DUTIES

- Assist in the development of specifications for new product requests and enhancements
- Provide support and documentation to enable company staff to quote and source materials
- Create, publish, and maintain departmental procedures as assigned
- Participate in the identification and recommendation of new material handling technology solutions
- Serve as a technical resource to other departments as required

### SPECIFIC DUTIES

- Create and maintain CAD solid models, assemblies, and detailed drawings in SolidWorks
- Maintain historical 2D CAD detail drawings in AutoCAD
- Develop and maintain supporting design calculations
- Specify & document product reliability test protocols
- Perform FEA (Finite Element Analysis) using SolidWorks Simulation
- Create and maintain product bills of material and routings in CSI9 (CloudSuite Industrial)
- Execute ECN's (Engineering Change Notices) as required

### MINIMUM REQUIREMENTS

4 Year Mechanical Engineering degree  
2-5 Years of professional experience minimum  
Ability to meet tight deadlines with high quality requirements  
Project and task management skills  
Strong communication skills (Verbal & Written)  
Problem solving skills  
Detail oriented

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### DESIRED EXPERIENCE

SolidWorks  
FEA using SolidWorks Simulation  
Drafting  
Geometric Dimensioning & Tolerancing (GD&T)  
ERP Software  
Microsoft Office (Excel, Word, PowerPoint, Outlook)  
Microsoft Teams  
Material handling product knowledge  
AutoCAD

### NICE-TO-HAVE EXPERIENCE

SolidWorks PDM  
Chinese Speaking