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Company Overview: Pearl designs and builds standard and custom high-speed machine attachments for punching holes, perforating, and slitting for the converting industry. Pearl also offers blown film extrusion process enhancements that improve film quality at higher outputs while reducing maintenance. Pearl Technologies' success and reputation are built on outstanding customer service, innovation, quality, speed, and delivery. Pearl has revolutionized the plastics industry with over two dozen patents, a lineup of over 3,000 solution-driven products and 13,000 parts to thousands of customers in every continent of the world. All of the action takes place in Pearl's 41,000 square foot headquarters located in Savannah, New York.

Location: Savannah, New York. Car required.

Position: Design/Mechanical Engineer

Duration: 1 summer and 1 semester

Summary: Will be responsible for using SolidWorks to create and develop parts and designs integrated with current drawings and/or innovations. Must be able to apply a variety of engineering principles – mechanical, electrical, and packaging – to various engineering problems and must have working knowledge of tolerances and theories. Must be able to create concepts and designs by analyzing product or equipment specifications, performance requirements, and existing manufacturing capabilities.

Duties and Responsibilities:

- Create parts, assemblies, and subassemblies in SolidWorks using best modeling practices.
- Produce and implement product designs, prints, and detailed conceptual designs with geometric dimensions and tolerance (GD&T).
- Ensure that all new and custom projects are complete and documented before released to manufacturing.
- Manage and maintain all aspects of engineering projects including documents and customer information related those projects.
- Assure the accuracy and completeness of all drawings, files, engineering records, prints, and bills of materials.
- Troubleshoot and solve manufacturing issues.
- Modify or enhance current products for greater efficiency and effectiveness.

- Consult professionally with customers on projects and product capabilities as required for technical information and requirements and to visit customer sites as needed.
- Develop and maintain control procedures and reports, making sure data is accurate and current.
- Assist with controlled studies and research and implement improved technologies, sources, suppliers, and/or materials.

Qualifications:

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representational of the knowledge, skill, and/or ability required. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

- Current student of an engineering discipline at an accredited institution with a minimum GPA of 3.0.
- Mechanical aptitude required. Electrical knowledge desired.
- Knowledge of mechanical prints, including dimensioning, tolerances, and material specifications.
- Have strong working knowledge of modeling theory, including datum placement, model tree control, and table-driven configurations.
- Be able to perform basic engineering calculations on support structures, mechanical drivetrains, rotating components and bearings, pneumatic systems, and electromechanical components.
- Detail oriented, self-motivated individual with excellent organizational skills.
- Able to manage multiple changing priorities while maintaining deadlines.
- Strong verbal and written communication skills with ability to work with personnel at all levels of the company.

Computer Skills:

To perform this job successfully, the ideal applicant should have working knowledge of Microsoft Word, Microsoft Excel, email applications, the internet, and Windows-based PCs. Must have at experience working with SolidWorks 2014 or higher at an advanced level.