**Job Title**: Engineering and Manufacturing Support

Location: Remote Duration: 3-6 months, with the possibility of extension based on performance

**Company Overview**: At the forefront of manufacturing innovation, our company specializes in the design and production of high-quality mechanical components. We are dedicated to continuous improvement and efficiency in our manufacturing processes, with a particular focus on pulley systems. We are offering a remote unpaid internship for engineering majors who are eager to apply their knowledge to real-world challenges and contribute to the advancement of manufacturing excellence.

**Job Description**: We are looking for a highly motivated and technically skilled intern to support our engineering and manufacturing teams. This remote internship will involve working on simulation projects, using AutoCAD for design purposes, conducting finite element analysis, and contributing to the improvement of our manufacturing processes, specifically for pulley systems. Key Responsibilities: Simulation and Design: Utilize simulation software to model pulley systems and predict performance under various conditions. Use AutoCAD to create and modify designs according to project requirements. Finite Element Analysis (FEA): Conduct FEA to assess the structural integrity and reliability of pulley designs. Interpret results to identify potential improvements or optimizations.

**Software Proficiency**: Work with different engineering software tools to analyze and improve product designs. Adapt to new tools as required for specific project needs. Manufacturing Process Improvement: Collaborate with the manufacturing team to understand current processes and suggest improvements. Apply engineering principles to enhance efficiency, reduce costs, and improve product quality.

**Requirements**: Currently pursuing or have obtained a Bachelor's degree in Engineering, with a focus on mechanical, industrial, or a related field. Strong proficiency in AutoCAD, simulation software, and finite element analysis tools. Familiarity with various engineering software and a willingness to learn new tools as needed. Excellent problem-solving skills and attention to detail. Effective communication skills, with the ability to work collaboratively in a remote team environment. A keen interest in manufacturing processes and a desire to contribute to the improvement of production techniques.

**Learning Opportunities**: Apply your academic knowledge to practical engineering and manufacturing challenges. Gain valuable experience in product design, simulation, and process improvement. Work alongside experienced professionals in a collaborative, remote environment. Enhance your technical skills with hands-on experience in industry-standard software and tools.

**How to Apply**: To apply for this exciting internship opportunity, please send your resume, a cover letter detailing your interest and qualifications for the role, and any relevant project work or portfolio pieces that demonstrate your skills in simulation, AutoCAD, and finite element analysis to jingyiliu@alldriveus.com.

Please note that this is an unpaid internship designed to offer practical experience and skill development in the engineering and manufacturing fields.