Company Background:

Castor Engineering, Inc. provides engineering, design and manufacturing services for aerospace, defense, and commercial customers the world over. CEI has been in the aerospace valve business for more than four decades.

The CEI mission is to become the premier provider of quality outsourced pressure control devices and systems. We are dedicated to building long term relationships with customers through quality products and customer support, and strive to be recognized as the leading pressure system component supplier in the world.

Mechanical Engineering Intern - Job Description:

Castor Engineering, Inc. is currently seeking an intern to support mechanical design and analysis efforts. As an entry level intern, candidates will be tasked with performing basic engineering tasks, including mechanical structure analysis, mechanism design, 2D/3D CAD model production, document management, finite element analysis, and numerical simulation. The ideal candidate will have excellent communication skills, be willing to learn and adapt in a constantly changing environment, and be able to conduct himself with professionalism throughout the course of his work.

Required Education:
- Qualified candidates will have a minimum of 3 years completed in a related engineering field of study (mechanical engineering, aerospace engineering, industrial engineering), preferably with a GPA of 3.0 and above.

Required Skills:
- At least 1 year of experience with a standard mechanical CAD package: Solidworks, CATIA, Creo Parametric, Autodesk Inventor. Preference is Inventor.
- Familiarity with Finite Element Analysis (FEA) techniques and principles
- Basic understanding of strength of materials analysis.
- Proficiency with office software, including MS Word and Excel.

Desired Skills:
- 2+ years CAD experience, professional or otherwise.
- Practical FEA and optimization experience, using industry standard software
- Knowledge and proficiency in programming, particularly in C/C++ or MATLAB.