Joe Bag-o-doughnuts, EIT

Anywhere, AM • (123) 456-7891 • ******@***.com • in/LikeTheRussian

EDUCATION AND CERTIFICATIONS

Bachelor of Science, Mechanical Engineering

University of America – School of Mechanical and Aerospace Engineering *May 2015*

Passed Fundamentals of Engineering Exam (EIT) *May 2015*

PROFFESIONAL EXPERIENCE

Mechanical Designer *January 2016—Present*

Company *Anywhere, Am*

- Utilize a 3D-CAD environment to design hydraulic dampers and other energy absorbing products for civil structures and 350,000+ lbs. force systems.
- Conduct engineering calculations such as stress analysis of various components and fluid dynamic calculations to predict product performance prior to prototypes being manufactured, assembled, and tested.
- Use SolidWorks to develop drawings to communicate design intent with Geometric Dimensioning and Tolerancing (GD&T) in accordance with ASME Y14.5-2009 and ISO standards for quotation, manufacturing, and production use.
- Apply engineering skills and recognition of test data to troubleshoot prototypes prior to production lot manufacturing to maintain a LEAN manufacturing ideology.
- Create acceptance test procedures for production lot and summarize data into reports for customer validation and acceptance.

Mechanical Product Engineer *July 2015—December 2015*

Company *Anywhere, Am*

- Created standard designs, drawings, and eliminated redundancies of fire protection pump systems to increase production and ease customer selections of products.
- Managed product designs for plumbing booster systems to ensure that all designs met customer expectations.
- Issued SOLIDWORKS drawings for pump packages for quotations and for production use.

Design Engineer (Internship) *October 2014—July 2015*

Company *Anywhere, Am*

- Partook in the design process and aided in the redesign of various shock absorbers and rate controllers under the direct supervision of senior engineers for defense, aerospace, and industrial applications.
- Aided in the design, and documented the demonstration of an assisted lift mechanism for overhead bins on commercial aircraft by using rapid prototyping methods (3D-Printers).
- Conducted a Design Failure Mode and Affect Analysis (DFMEA) of a hydraulic actuator for a commercial airplane door.

Test Engineer (Internship) *September 2013-October 2014*

Company *Anywhere, Am*

- Designed and fabricated an experiment used to verify material changes projected to save the company $500,000 per year.
- Created technical reports on various field simulation experiments with detailed analysis and supporting data.
- Submitted detailed technical drawings for customer approval on diesel fire suppressant pumps for $30,000+ projects.

TECHNICAL SKILLS

Programming Languages: MATLAB, C++, Python

CAD: SolidWorks, PTC Creo (Pro E), AutoCAD

Finite Element Analysis (FEA): SolidWorks, PTC Creo

Product Data Management: ENOVIA SmarTeam, Enterprise

Analysis Software: MathCAD, MATLAB, Excel VBA

Microsoft Office: Word, Excel, PowerPoint, Access