

## **Josh Weaver**

9850 Holland Circle, Westminster, CO 80021

[uimeche12@gmail.com](mailto:uimeche12@gmail.com) Cell: 563.880.5451

### **Education**

**University of Iowa, Iowa City, IA**

B.S.E., Mechanical Engineering, December 2011

Mechanical Systems Design Emphasis with a minor in Mathematics

### **Summary**

- Over 7 years of experience in Mechanical Design of Automated Process Equipment for the Grain Feed Industry
- Heavy Machinery Design using Large Electric Motor Driven and Pneumatically Actuated (Rotary and Linear) Components
- Design for Manufacturing/Assembly including Sheet Metal Fabrications and Cast/Machined Parts
- (7) Years Professional Experience with Autodesk: Inventor
- Create 2D Drawings (Drafting) for In-House and Vendor Supplied Parts and Assemblies, GD&T (ASME Y14.5)
- MRP/ERP (Manufacturing/Enterprise Resource Planning)
- Prototyping/Validation Testing, Reliability, Continuous Improvement
- FEA (Finite Element Analysis)
- Screw Conveyor/Vibratory Feeder and Steam System Design
- Sales, Field Service and Assembly Technician Support
- Assistance in Training Incoming Engineering Staff
- Collaboration with facilities in Europe and Asia

### **Experience**

#### **March 2012 to Present**

Remote from Denver, CO area since July 2014

**CPM Acquisitions Corp.**, the world's leading provider of process equipment and automation systems

[www.cpm.net/equipment/pellet-mills](http://www.cpm.net/equipment/pellet-mills)

**Product Engineer** - Lead Designer, Conditioner & Feeder Product Lines, Pelleting Systems, July 2014 to present

**Design Engineer I/II**- March 2012- July 2014

**Primary responsibility: Design and Implementation of precision stainless steel, food grade process equipment for the grain feed industry**

- Lead Engineer for (2) Product lines with multiple standard models and endless custom requests
- Close collaboration and correspondence with Sales, Field Maintenance, Order Processing, and Technical Documentation departments as well as outside vendors and with locations across the nation and abroad
- Maintenance and reference of/to documentation dating back to the 1950's as well as creating new drawings for parts and assemblies based on modern standards including ANSI/ASME Y14.5

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- Assistance provided 24/7 as needed to colleagues in the field during start-up and field maintenance visits
- Create 3D models of parts and assemblies using Autodesk: Inventor software and synchronizing design revisions with colleagues using Vault, adaptation from legacy documentation in AutoCAD
- Design with emphasis on part interchangeability, symmetry, ease-of-use and maintenance, and efficiency
- Specification of Equipment including Gear Reducer Drives and Motors for various applications and regions
- Draft engineering drawings with proper materials selection, GD&T, fabrication/manufacturing, and assembly processes for both sheet metal weldments and machined-from-cast parts for in-house and mostly outsourced production
- Design Analysis using Inventor integrated FEA suite, MathCAD and custom Excel sheets
- Loading new part numbers into MRP system and creating bills of materials and parts list drawings for new orders and modification to existing product structure. Involved during the massive task of migrating to SAP B1 in 2016
- Special Projects include supporting the sales department with design adaptation for VR environments, 3D Printing and Multimedia Presentations including the video featured at the above web address; creating complete system general dimension layout drawings for preliminary sales discussion and plant design.
- Proficient CAD and Parametric Modeling Skills with the ability to easily adapt to other platforms such as SolidWorks or Creo.