

Glen A. Mussi – Senior Mechanical Engineer, Proof Engineering Co, LLC

**Education:**

B.S. in Mechanical Engineering, Arizona State University, 2005

**Professional Experience:**

Primary background is in the area of design, analysis, and optimization. Experience includes consumer products, vehicle and seat crashworthiness, dynamic analysis, linear analysis, fixed and solar tracking systems, custom vehicles (three wheel car / 4 wheel leaning motorcycle), custom seating (ambulance all in one adult child and infant seat), industrial machinery, and military equipment.

- Excellent CAD design skills
- Design and analysis, many- multi axis solar concentrator dishes
- Three wheel vehicle structural design and analysis
- Design and analysis mounted solar trackers on commercial parking structure
- Composite - FEA
- Beam modeling - FEM
- Dynamic crash analysis and design heavy truck bumper assembly
- Dynamic car crash analysis and design for front, side rear impact
- FMVSS 207/210 Analysis, single seat, third row multi-seat
- FMVSS 207/210 test setup
- Design for LRFD / AISC design codes
- Reverse Engineering
- Import optical scans and repair surface data
- Rapid prototype manufacturing
- Design and analysis, fixed and single axis ground mounted solar tracker systems
- Automotive seat design/analysis/optimization with ATD
- Aircraft seat design/analysis/optimization
- Design industrial manufacturing machines
- Model simulations kinematic and dynamic
- Design for manufacturability
- Energy absorbing recliners
- Energy absorbing tracks
- Flip and swing 2<sup>nd</sup> row seat concept Nissan Pathfinder
- Automotive show seat – conceptual prototype
- Energy absorbing all-belts-to-seat system
- Dynamic simulations of OEM seat tracks using LS-DYNA

- Dynamic simulations of OEM seat recliners using LS-DYNA
- Roof top Heliostat tracker
- Laser marking machines for medical industry
- Bearing strap
- Sprung Pocket knife
- Numerous tie downs
- Medical innovative crutch foot
- Bulk material hopper (rock box) for aggregate crushing plant
- Analysis aggregate processing plants
- Shop experience, build prototypes, cut, machine, turn, weld

**Patents:**

20080232734: Bearing Strap Assembly (Lightweight bearing/spacer)

**Experience:**

2010-Present Proof Engineering Co., Senior Mechanical Engineer

2005-2009 ESG Engineering, Mechanical Engineer

2004-2005 Elio Engineering, Imported Optical Scan Repair Designer

**Computer Skills:**

- Solidworks
- SDRC IDEAS
- Inventor
- Altair HyperWorks, Hypermesh, Optistruct, Pre and Post processing, optimization
- LS-DYNA
- FEMAP
- Nei NASTRAN
- Matlab
- All Microsoft Office Applications
- Working Model
- MultiFrame