

Design Engineer

This position will be located in Winamac, Indiana

GENERAL PURPOSE:

Assist in the engineering design/development/release of wheelchair accessible vehicle conversions. This includes wheelchair accessible components/systems (structure, ramp, restraints, interior, package options, etc.), as well as modification of many of the original equipment manufacturer (OEM) chassis components/systems (structure, suspension, fuel, HVAC, seating, etc.)

ESSENTIAL FUNCTIONS:

- Completes development projects from concept, to design and analysis, to validation testing and review. Coordinates with cross-functional groups to release and implement design into production while maintaining corporate objectives.
- Conducts design and analysis using quality design tools, robust engineering and LEAN principles.
- Performs and approves design modification and continuous improvements as appropriate
- Directs and conducts necessary research incidental to design
- Investigates manufacturing and service issues utilizing root cause analysis
- Documentation and cross-training of engineering best practices

MINIMUM QUALIFICATIONS:

- Four-year degree in Mechanical Engineering (BSME) or equivalent
- Solid mechanical aptitude with demonstrated use of analytical abilities, root cause analysis and familiarity with project workflow (Stage Gate preferred)
- Solid understanding of quality, design and validation tools with experience including Finite Element Analysis, Design For Assembly/Manufacturability, Design of Experiments, Design/Process Failure Mode and Effects Analysis, Design Verification Plan & Report, problem solving and tolerance stacking preferred.
- Strong written and verbal communication skills with ability to communicate across all organizational levels professionally and effectively
- Experience with Inventor or similar 3-D CAD software and MS Office products required. Geometric Dimensioning and Tolerancing experience preferred.
- Exhibits strong teamwork and ability to multitask while maintaining project timelines
- Goal oriented, adaptable, self-starter with the desire to learn
- Strong attention to detail with “big picture” focus