



CAD/CAE Designer

Soundwich, Inc. is a Developer and Manufacturer of Acoustic and Thermal components for Automotive and Industrials applications. We strive to provide creative material innovations, which focus on improved system performance, while providing the benefits of reduced cost and mass. Our materials expertise stems from 3 decades of development in the field of Noise, Vibration and Harshness (NVH), as well as thermal protection.

This position may be based out of Troy, Michigan or Cleveland, Ohio. The CAD/CAE Designer will be responsible for designing and detailing exhaust system components (heat shields and assemblies), tooling, layouts, etc. The candidate shall interface with Engineering and Manufacturing to ensure the design meets Soundwich, and Customer, standards. The CAD/CAE Designer will interface with the customer to resolve any design issues, including attending design meetings with customer to ensure design information is relayed back to the program team.

We offer competitive compensation along with excellent benefits (medical, dental, vision, and 401k)

Job Description:

- Design and detail exhaust component heat shields, body panels, etc.
- Design must meet customer clearances and requirements.
- Maintain strong familiarity with specific customer CAD data integrity requirements.
- Transfer CAD data to and from customer.
- Assist in customer relations on design issues.
- Create and maintain EBOMs for the assemblies assigned.
- Complete design work requests on-time and accurate.
- Apply and interpret GD&T
- Maintain product drawings and accurate records.
- Keep customer design of record in alignment with Soundwich design of record.
- Create new product drawings/models & complete necessary calculations
- Create / update product drawings & calculations necessary for product modifications
- Make drawing/model modifications for ECRs (Engineering Change Requests) & NPRs (New Product Requests)
- Utilize basic engineering for product designs
- Reviews regulatory artwork for production and manufacturing
- Point of contact for IT support (drafting software, server space, etc.)
- Generate 3D models/assemblies, and 2D drawings
- Support the release of product into production

Required Skills:

- Strong working knowledge in the following Software – Unigraphics NX version 8.5, CATIA V5, AutoCAD Inventor with ANSYS and/or Nastran modeling knowledge a plus.
- 5+ years' experience in CAD
- 5+ years' experience applying GD&T
- Experience with assemblies, multi-model links, design in context.
- Experience with detailed drafting and modeling.
- Experience with PLM systems
- Experience with CATIA V5 and/or Unigraphics NX ver. 8.5 CAE/FEA modeling experience Sheet metal, casting design or manufacturing experience a plus. Metrology experience is a plus
- PPAP experience a plus
- Surfacing, detailing, solid modeling, and data conversion.
- General automotive knowledge.

Education: Engineering degree or equivalent experience