Marlon Brekke

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EXPERIENCE

EXPERIENCED OPTO MECHANICAL ENGINEER

Detroit, MI
03/2015 – present

- Develop test plans and perform testing of optical components and subsystems
- Assist in recruiting of other engineers for the Business Area
- Contribute to the development of innovative solutions to difficult problems
- Specify optical components for fabrication by Qualified Suppliers
- Assemble opto-mechanical sub-assemblies
- Document and present designs and test results
- Design and analyze optical components and subsystems

EXPERIENCED MECHANICAL ENGINEER

Dallas, TX
09/2009 – 12/2014

- Works with manufacturing engineering and project management to resolve any design related issue impacting production and to improve product design
- Understand project management, provide basic support
- Develops procurement documents and specifications, Statement of Work (SOW) documents and proposals support for engineered components and assemblies
- Provides technical evaluations to support procurement decisions
- Provides direction to manufacturing, test, subcontracts staff or technician staff
- Assist the production unit when mass production starts
- Understand project management, be an active team member in the project

EXPERIENCED MECHANICAL ENGINEER

Houston, TX
01/2007 – 03/2009

- Possibility of travel 10% of the time
- Knowledge of the operation of mills, lathes, jig boards, grinders and cnc manufacturing machines
- Keep improving the quality of Schneider LV equipment & enclosure
- In charge of giving a detailed design of the product
- Design whole or partially the LV equipment's mechanical assembly
- Resolve complex technical issues in primary area of competence
- Typically deals with several problems at the same time

EDUCATION

WASHINGTON STATE UNIVERSITY

Bachelor's Degree in Mechanical Engineering

SKILLS

- Complete understanding and wide application of technical principle, theories, and concepts in the field. General knowledge of other related disciplines
- Is accountability for a safe work environment
- Contribute to the development of innovative solutions to difficult problems
- Specify optical components for fabrication by Qualified Suppliers
- Develop test plans and perform testing of optical components and subsystems
- Assemble opto-mechanical sub-assemblies
- Document and present designs and test results
- Verify and validate associated finite element models of opto-mechanical assemblies and products
- Provide technical solutions to a wide range of complex difficult problems. Solutions are imaginative, thorough, practicable, and consistent with organization objectives
- Works under only general direction. Independently determines and develops approach to solutions. Work is reviewed upon completion for adequacy in meeting objectives