

Troy Hirthe

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EXPERIENCE

MECHANICAL ENGINEER

Philadelphia

Mechanical Engineer

10/2013 – present

- Analyzed failure data and recommended design changes to reduce or eliminate failures
- Applied product design enhancements and building code updates as required
- Assured efficient and economical utilization of material and equipment, improvement of methods, and limitation of waste practices within functional areas of responsibility
- Communicated with management team, plant manager, and / or production supervisors to fulfill operational schedules
- Communicated with sales manager and sales personnel
- Consulted team regarding any proposed engineering department computer and CAD system changes
- Coordinated manufacturing activities to ensure production and quality of products meets customer delivery requirements and specifications
- Coordinated operation, maintenance, and repair activities to obtain optimum utilization of machines and equipment
- Created and reviewed all drawings for submittal to customers to verify design, code compliancy, and structural integrity
- Designed existing products to meet the predetermined specifications of the management team
- Designed products and systems to interface machines, hardware, and software.
- Designed products or systems
- Directed and coordinated fabrication and installation activities to ensure products and systems conform to engineering design and customer specifications.
- Ensured compliance with the company's policy procedure manual
- Evaluated projects, and consulted on requirements for new applications, to ensure compliance with IRC and IBC codes
- Maintained design configurator and configurator programming
- Managed revisions of standard operations and practices to improve quality, efficiency, and overall performance of the organization
- Reviewed project production and operating reports and resolve operational, manufacturing, and maintenance problems to ensure minimum cost while preventing operational delays
- Tested new designs and design changes to validate performance and reliability
- Utilized configurator and/or design automation software to configure products based on established standards

EDUCATION

MASSACHUSETTS COLLEGE OF ART

2008 – 2013