

PERRY MARTIN LUFKIN

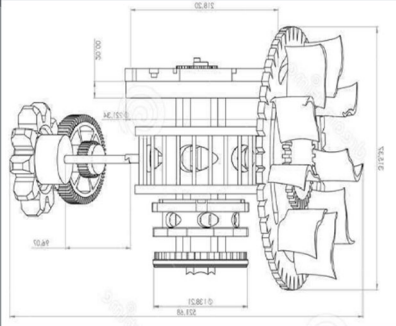
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ENTRY-LEVEL MECHANICAL ENGINEER

An **Entry-Level Mechanical Engineer** combining a **Bachelor of Science in Mechanical Engineering (BSME)** with experience designing innovative engineering products/solutions to meet established benchmarks in weight, size, pressure, volume, and safety. Possesses a track record of capturing double-digit improvements in engineering performance through engineering calculations, 2D/3D engineering models, process automation, and testing. Controls risks by complying with company standards, safety regulations, and engineering best practices. Fosters teamwork, prioritizes activities, and meets project deadlines.

CORE COMPETENCIES

Mechanical Engineering | Finite Element Analysis (FEA) | Testing | AutoCAD
Feasibility Studies | MATLAB | PTC Creo | 2D/3D Modeling | SOLIDWORKS
Engineering Calculations | Schematics/Blueprints | Engineering Design | Mathcad
Troubleshooting | OSHA Safety | Data Analysis | Unigraphics | Project Planning



EDUCATION

BACHELOR OF SCIENCE: MECHANICAL ENGINEERING (BSME)

UNIVERSITY OF CENTRAL FLORIDA: Orlando, FL
College of Engineering Dean's List | Magna Cum Laude
Graduated 5/2021 with a GPA: 3.76



MECHANICAL ENGINEERING INTERN EXPERIENCE



MECHANICAL ENGINEER INTERN

GREEN MOUNTAIN TECHNOLOGIES: Orlando, FL

Cultivated first-hand experience in mechanical engineering processes while interning for an organization dedicated to designing and manufacturing valves, gaskets, flanges, and pumps for use across the market.

- Completed Engineering Calculations and 3D Models to Support the Redesign of a Nitrogen Fill Station (comprised of hoses, vacuums, tubing, pumps, and wires). Project Results and Milestones:
 - Reduced Valve Pressure by 96.7%, from 9,548 to 318 microns, improving the station's overall performance.
 - Compressed the Size of the Nitrogen Fill Station by 36%, from 62.5 inches to 40 inches, to maximize the use of space.
 - Captured 15.3% Savings in Tubing Needs (72 inches to 61 inches) and 18.75 in Wiring Needs (from 96 to 78 inches) by redesigning layouts/routes throughout the station.
- Piloted an Initiative to Automate the Pressure Calculation Process of 17 individual SKU Numbers. The initiative reduced the calculation processing times by 85%, from an average of 300 seconds to 45 seconds.
- Integrated Mathcad Drawings/Calculations into PTC Creo to reduce rework and communicate information data between the two systems.
- Completed Led Feasibility Studies on costs, weights, and strengths.
- Developed 3D Designs and Models using SOLIDWORKS and prepared concepts/ for final testing.
- Conducted FEA (Finite Element Analysis) in 2D/3D Modeling Programs to define/mitigate structural and performance issues.

1/2021 – 5/2021

