CAREER OBJECTIVE

A NYS Licensed Professional Engineer with broad knowledge in Mechanical Engineering and actively seeking a challenging & suitable Senior Level Mechanical Engineering opportunity with an ambitious corporate.

PROFFESIONAL SUMMARY

Purposeful project manager and engineer armed with a graduate degree and 8+ years’ professional engineering experience. Dedicated to improving efficiency, productivity, and profitability of organizations through the development and execution of innovative, cost-effective solutions. Strong technical knowledge in the operation of facility environments' various heating and cooling systems. Competent in reading and interpreting blueprints and schematics, create shop drawing, and generating detail technical reports and submittals. In-depth knowledge in use of computer aided design and finite element analysis.

WORK EXPERIENCE

Senior Mechanical Engineer, PE 11/18 – Current

Tamco Mechanical, INC., Brooklyn, NY

* Plan, develop and facilitate multiple projects up to $3mil to maintain and improve the facility equipment and services.
* Perform administrative functions, such as reviewing or writing reports, approving expenditures, enforcing rules, or purchasing of materials or services, responding to RFI/ RFQ.
* Evaluate calibration, maintenance, and equipment performance and work orders to identify trends with an emphasis on reducing reactive work and increasing reliability.
* Oversee installation, operation, maintenance, or repair to ensure that machines or equipment are installed and functioning according to specifications and provide technical expertise in areas of CM and PM activities.
* Utilize formal problem-solving techniques, such as root cause analysis (RCA), failure mode effects analysis (FMEA), and/or Lean Six Sigma tools.
* Identify revisions, deletions, or additions to the calibration and maintenance programs and Standard Operating Procedures (SOP’s) to ensure that calibration and maintenance activities are completed in accordance with established safety.
* Lead in the identification and implementation of process improvement projects, productivity initiatives and corrective actions while focusing on equipment uptime, minimizing cost, and maintaining process consistency.
* Develop training material. Working as a subject matter expert (SME), provide necessary training for system maintenance.

Mechanical Project Engineer 02/13 – 10/18

Tamco Mechanical, INC., Brooklyn, NY

* Researched, designed, evaluated, installed, operated, and maintained mechanical products, equipment, systems, and processes to meet requirements, applying knowledge of engineering principles.
* Maintained all CAD operations; managed all engineering documents for centralized document management system. Updated existing drawings, revised equipment designs and created new drawings.
* Interpreted engineering drawings, schematic diagrams, or formulas and confer with management.
* Supported safety programs (LOTO, HECP, Fall Protection, etc.) and environmental compliance from a maintenance perspective.
* Collaborated with the facility area maintenance technicians and engineers to maintain all facility operation equipment.
* Read worker logs, product processing sheets, or specification sheets to verify that records adhere to quality assurance specifications.

Adjunct Lecturer Aug-20 thru Dec-20

The City College of New York

Introduce student to the theory and methods of Computer-Aided Design (CAD), design methodology, concept of FEA simulation. Instruct on how to analysis programs based on finite element methods and postprocessing and apply those concepts to engineering design projects using Solidworks Simulation.

ACADEMIC QUALIFICATIONS

The City College of New York, New York, NY

Doctor of Philosophy, Mechanical Engineering, Aug-18 thru June-21

GPA: 3.83

The City College of New York, New York, NY

Masters of Engineering, Mechanical Engineering, Jan-16 thru June-17

GPA: 3.93

The City College of New York, New York, NY

Bachelor of Engineering, Mechanical Engineering, Aug-09 thru Feb-12

GPA: 3.52

CERTIFICATION

|  |  |
| --- | --- |
| Certified Solidworks Expert in Mechanical Design - Dassault Systèmes  | Jan-21 |
| Certified Solidworks Professional in Simulation - Dassault Systèmes | Jan-21  |
| Professional Engineering - New York State Education Department | Nov-18 |
| Six Sigma Certified Green Belt - IASSC | Aug-16 |
| Introduction to Project Management Principles and Practices - Coursera | Sep-15 |

CONTINUING EDUCATION

|  |  |
| --- | --- |
| Plant Maintenance - Vibration Monitoring and Analysis, 360training – 4 PDHs | Jan-21 |
| Light Commercial Design for Quality Installation, ACCA – 25 PDHs | Jan-21  |
| OSHA30 – ClickSafety -30 PDHs | Nov-18 |
| Lockout Tagout (LOTO) Worker Safety – 360training, 1 PDHs | Aug-16 |
| OSHA10 – 360training, 10 PDHs | Sep-15 |

SOFTWARE SKILLS

CAD: SolidWorks, AutoCAD, Revit

CAE: Ansys, COMSOL, Abaqus

Programming: MATLAB, Maple, C++, Java.

Project Management: MS Office, MS Project, QuickBooks, and Outlook