

PROFESSIONAL PROFILE

Results-Oriented Mechanical Engineer with extensive experience in HVAC, plumbing/piping, supervision, and project management. Demonstrate a keen ability to optimize product or processes, improve efficiency, and decrease the need for re-engineering. Able to apply in-depth and extensive project management principles and methodologies to support the implementation of important initiatives. Ability to think strategically and execute critical thinking with a pro-active, solution-oriented approach to situations. Visionary leader with exemplary interpersonal skills, excellent communication, ability to oversee multiple lines simultaneously, and the ability to make sound decisions in a challenging and dynamic market. Ability to manage multiple tasks simultaneously.

MECHANICAL ENGINEERING • DESIGN • CONSTRUCTION PROCESSES • COMPUTER AIDED DRAWINGS • SPECIFICATIONS
COST OF CONSTRUCTION ESTIMATES • CHANGE ORDERS • PROJECT MANAGEMENT • MULTIPLE DISCIPLINES
COORDINATION • AUTOCAD • CARRIERE20II • HVAC & PLUMBING DESIGN • NETWORK MAINTENANCE • TRAINER

PROFESSIONAL EXPERIENCE

Sr. MECHANICAL ENGINEER AND PROJECT LEADER METTLER GROUP, CLEVELAND, OH

11/ 2006 - 12/2008

POSITION PROFILE: Designed and analyzed innovative, as well as, cost effective, air and water distribution systems in the steel mill industry. Ensured 100% compliance with code compliance for all projects. Performed site field investigations to maintain detailed hands-on information regarding progress of projects. Supervised Junior Engineers and Draftsmen.

NOTABLE ACCOMPLISHMENTS:

- ✓ Alcoa 50,000 Ton Forge Pit Ventilation Project: Developed an innovative concept to optimize the available space surrounding the forge press structure and support utilities services for improved ventilation, thus solving problem of air change rate deficiency
- ✓ Steel Mill Construction Project: Mapped and designed ventilation improvements for three major industrial areas utilizing a combination of products to reduce rotary furnace pipe mill heat buildup
- ✓ Mittal Steel Project: Developed and produced working plans to protect crane operators and personnel during leaded steel heat castings through designing an efficient pulpit pressurization system with variable speed, multi-media filtered ventilation units that operated in tandem with current air control system. Completed heat gain calculations on equipment, recommended optimal equipment, and provided field support, as well as, functioned as primary liaison between mill personnel and installation contractors.
- ✓ Steel Forging Quench Tank Design: Designed and developed piping system and heat exchanger water cooling system. Water pump system design was accomplished between the main tank building and the support mechanical building, as well as, the interfacing and tie in to the existing resources - Additionally, a combination quench tank lift table and agitator hydraulic piping and pump system was successfully designed and operated
- ✓ Mittal Steel Coke Plant Project: Created specifications and plans to convert waste coke oven gas to electrical energy increasing efficiency and reducing costs

PROJECT ENGINEER ONE CORP, CHAGRIN FALLS, OH

6/2005 - 11/2006

POSITION PROFILE: Designed and analyzed HVAC and plumbing/piping systems for governmental, commercial, and industrial consumers. Effectively collaborated with clients, conducted field surveys, and completed drawings based on specifications for each project.

NOTABLE ACCOMPLISHMENTS:

- ✓ Studied facility air, sanitary, and water services of a multi-level apartment complex and recommended optimizations for establishment, as well as, designed and produced drawings for emergency power generator room, VA living quarters, and warehouse HVAC buildings

PROFESSIONAL EXPERIENCE CONT'D

PROJECT ENGINEER

BARON-GARNER COMPANY, MIDDLEBURG HEIGHTS, OH

9/2004 - 3/2005

POSITION PROFILE: Designed and analyzed HVAC and plumbing/piping systems for commercial, educational, and industrial consumers. Designed and analyzed innovative, as well as, cost effective, code compliant designs for air and water distribution systems. Oversaw Draftsmen's work and design drawings.

NOTABLE ACCOMPLISHMENTS:

- ✓ Recommended improvements to HVAC systems in both high school and post-secondary learning establishments, as well as, office areas through collaborating and developing viable solutions with engineering team

DESIGN ENGINEER/PROJECT LEAD

ARES ENGINEERING COMPANY, CLEVELAND, OH

1987 - 2004

POSITION PROFILE: Map and plan designs for HVAC and plumbing/piping systems. Ensured compliance with all regulatory codes. Functioned as lead for project completion through supervision of Draftsmen and collaborating partners. Served as System Administrator for Osborn's joint venture government office at NASA's Glenn Research Center.

NOTABLE ACCOMPLISHMENTS:

- ✓ Spearheaded the HVAC design upgrades for NASA's Glenn Research Center, educational facilities, elevator mechanical rooms for a government establishment, as well as, toll-booths, military bases for the U.S. Air Force, and laboratories with and without clean rooms

DESIGN ENGINEER

WARNER GROUP, LORAIN, OH

1983 - 1987

POSITION PROFILE: Configure and develop plans for HVAC systems while merging innovative and cost effective initiatives.

SYSTEM & INDUSTRIAL ENGINEER

U.S. STEELASTIC GROUP, LORAIN, OH

1976 - 1983

POSITION PROFILE: Maintained, analyzed and recommended improved reporting on energy conservation goals report system implementing strategies to comply with regulations. Justified new or alternate equipment through analyzing method and facility requirements. Led a design team to develop a process for gathering product measurement data used in establishment of a bloom-billet tracking system

EDUCATION & TRAINING

BACHELOR OF SCIENCE – MECHANICAL ENGINEERING

- The University of Akron - Akron, OH

DATA PROCESSING

- Lorain County Community College - Lorain, OH

HVAC DESIGN CERTIFICATE & PLUMBING/PIPING DESIGN CERTIFICATE

- Cleveland State University - Cleveland, OH