

PRODUCTION MANAGER / SAFETY / INDUSTRIAL TECHNOLOGY
Innovative Placements
(716) 883-1793
atodaro@innovativeplacementswny.com

EDUCATION

M.S. Industrial Technology

Buffalo State College Graduate School
2010, Anticipated graduation Spring of 2012

B.S. Industrial Technology Engineering

Minor - Safety Studies

Buffalo State College
2006 to 2009

A.A.S. Industrial Design Technology

Niagara County Community College
1998 to 1990

SUMMARY

I possess sound technical skills as an effective collaborator, communicator and manager. Prior to obtaining my Bachelor Degree in Industrial Engineering Technology with minor in Safety Occupation, my past work experience consisted of senior level mechanical designer with a progressive background in the development of a variety of products for aircraft, automotive compressors, turbo compressors, and process piping. I have knowledge in all Industrial Process Piping materials and possess at minimal, the ability for entry level into this field.

I am currently pursuing a Masters Degree, expanding my exposure to marketing and business acumen to complement my years of exposure in engineering production and product design and manufacturing.

SELECTED ACCOMPLISHMENTS

- Awarded patent for invention of a hinge between hub and swashplate which allowed development of the compressor with the intent to avoid paying a royalty to the competitor. (Delphi)

- Team leader in analyzing and implementing new assembly techniques which lowered assembly time and cost for a non-profit organization, thus making them more competitive in renewing current contracts. Southeast Works in Depew, NY. (B.S.C. project, Spring semester 2009)

EXPERIENCE

Delphi Harrison Thermal Systems

Lockport, NY

1999 – 2002

Lead Designer / Supplier Manager - contract

- Assigned to R&D on new variable displacement compressors. This specialty group was moved off site to allow for rapid prototyping, production and on-site performance testing.
- New responsibilities included outsourcing various parts to vendors and follow-through with acceptable quality specifications, cost management, part production time scheduling to guarantee availability of revised parts for prototype builds prior to reserved dates at testing facility.
- I was the original designer assigned to design prototype of a hollow piston.
- Ordered and tracked castings for compressor builds. Inspection of the castings integrity to verify lack of voids and fissures. Observed X-raying of castings at vendors manufacturing facility.

- Moog Incorporated Aircraft Division** East Aurora, NY 1997 – 1999
Designer and Unigraphics Consultant - contract
- Aided Moog designers in use of Unigraphics software for 3-D design mating conditions and assemblies.
 - Created pneumatic aircraft flight controls.
 - Developed models and assemblies for precision parts in servo actuator control modules.
 - Designed hydraulic manifold systems and spools.
 - Managed and maintained design programs, assemblies, models and drawings.
- Harrison Radiator, Division of General Motors** Lockport, NY 1994 – 1997
Automotive Compressor Designer - contract
- Designed all compressor parts which included castings, extrusions, forgings, and machined surfaces for front and rear head, shafts, variable and fixed displacement drive mechanisms, solid and hollow pistons, piston shoes, intake and discharge reeds, along with coating materials.
 - Created models, rapid prototypes and CNC production tooling.
 - Part creation through FDM and SLS for rapid prototyping.
 - Aided EDS in UG support for new designers working second shift.
 - EDS Certified for Unigraphics Version 10 thru UGNX in Parametric Transition.
 - EDS Certified for TeamCenter PLM and Assemblies Implementation
- Cooper Turbo Compressor** Buffalo, NY 1993 – 1994
Mechanical Designer Turbo Compressors - contract
- Design layout of oil lines for turbo compressors.
 - Design and location for control panels, inlet guide vanes and various other parts.
 - Inspections and verification of compressors systems and parts prior to shipment to customers.
- General Electric Aerospace Weapons System Division Burlington VT 1992 – 1993
Mechanical Designer - contract
- Utilized Calma 3-D CAD for design of Gatling gun on Boeing/Sikorsky Comanche helicopter.
 - Introduced to MIL Specifications and obtained D.O.D security clearance.
- Union Carbide Tonawanda, NY 1990 – 1992
Piping Designer - contract
- Designed Air Separation plants and Co-Generations plants.
 - Thorough knowledge of Industrial Process Piping and pressure vessels.
 - Promoted from entry level industrial process piping designer to full designer by 2nd year.
 - Thorough knowledge of P&I diagrams.
 - Adhered to safety regulations governing locations and height clearances for pressure relief valves, supports, railing & walkways.
 - Thorough knowledge of gas properties. Cryogenic gases such as liquid oxygen, nitrogen, hydrogen. Rare gases of helium, xenon, krypton and argon.
 - Utilized Calma 3-D CAD system.