

Josef M. Fasolino

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(518)-956-0532 – Cell

Work Experience

- Knolls Atomic Power Laboratory** **Niskayuna, NY** **July 2005 to Present**
(Bechtel Marine Propulsion Corporation)
Advance Reactor Program (ARP) – Power Plant Mechanical Feb. 2009 to Mar. 2011
- Responsible for mechanical / fluid reactor plant systems design and their interfaces with components and propulsion systems of naval nuclear plants.
 - Responded to shipyard trouble records to resolve construction and testing issues, responded to fleet messages to resolve fleet issues, develop and maintain reactor plant manual sections.
 - Supported the VIRGINIA Class fleet cost reductions efforts through, technical evaluation, and analysis, in addition to, provided training of new VIRGINIA class crews.
 - Supported design efforts for issue resolution or operation enhancement through analysis or technical evaluations.
- Advance Reactor Program (ARP) – Reactor Heavy Equipment July 2005 to Feb. 2009
Mechanical (Cognizant) Engineer
- Cognizant engineer supporting all design and manufacturing of pressure vessel equipment including structural analysis, tolerance and alignment studies and engineering support of vendor fabrications.
 - Led two cost reduction initiatives through concept and technical feasibility by developing technical worksopes for vendors, leading technical design reviews, coordinating evaluations performed by other internal groups, perform historical research of previous work and presenting recommendations to senior management.
 - Led a small group of engineers (across multiple prime contractors) to successfully transfer the design responsibilities from the Reactor Heavy Equipment Design to the procurement agency.
 - Performed analytical calculation to determine the feasibility of future concepts.
 - Champion and assisted in six sigma process improvements projects across multiple business units, which lead to successful reducing manpower and simplification of processes across business activities.
- Program Manager* Mar. 2008 to Feb. 2009
- Tracked and managed engineering tasks and accounts occurring vendors analyzed manpower & financial data presented monthly reports to our management team.
 - Conducted bi-weekly teleconferences to coordinate all prime contractor efforts on technical project related to submarine projects.
 - Prepare for fiscal year budgets including developing manpower, performing cost analysis, and projecting business needs.
- Fasolino Home Improvements and** **Schenectady, NY** **Nov. 2005 to Present**
Remodeling
- Owner and operator of a successful and profitable construction business that includes all phases of construction (estimating, framing, electrical, plumbing, etc) for residential needs.
- PlugPower** **Latham, NY** **Mar. 2000 to July 2005**
Subsystem / Module Engineer
Advance Reactor Program (ARP) – Power Plant Mechanical Feb. 2009 to Present
- Lead Engineer on the Thermal Management Module and Air Delivery Module for the mechanic design, electrical & control systems and module layout * integration into the GenCore Program Product Platform.
 - Developed functional component specifications encompassing Component Definition, Product Characteristics, Design and Construction Constraints, Validations and Verification Requirements for Radiator, Fans, Pumps, Heaters, Blower, Activated Carbon Filters, De-Ionization Filter, Thermostats, Motor Control Cars and Perform Hoses.
 - Program managed the technical requirements and detail design review with international suppliers (TOYO) for the Thermal Management Module.
 - Created Component & module test plans utilizing Robust Design and DOE methods.
 - Led and supported Supply Chain Engineering activities including product sourcing, suppliers approval and supplier product qualification.
 - Led DFMEA and Hazop / Safety reviews to ensure the components, subsystem and modules met UL certification requirements
 - Integrated Design for Manufacturing (DFM), Design for Service and Installation (DFS), and Design for Reliability (DFR) activities into final subsystem designs.

System Integration Engineer

- Mechanical integration of the fluid & electrical components interconnected plumbing as well as hardware layout and design, frame and structural design
- Responsible for the bill of material s completion of drawing packages for product release to manufacturing.
- Team leader for mechanical integration of the ventilation subsystem, electrical and control systems and emergency stop loop for the system.
- Led the design team in trouble shooting and problem solving for the first successful CSA certification of a fuel cell system in the wind driven rain, electrical continuity and emergency stop loop testing.
- Administrated & conducted thermal design experiments, and developed MathCAD programs to calculate temperature junctions of FET(s) on motor control board based on free & force air cooling thru a heatsink and calculated proper cooling (CFM exhaust) based internal temperature of an enclosure.
- Advise Component Engineering, System Engineering, Manufacturing, Field Service, lab test technicians and Marketing to determine overall requirements and layout needs for system integration details.
- Translated the codes and standards as they relate to the design application into engineering design guidelines (ANSI Z21.83, UL and CSA).

Espey Mfg & Electronics

Saratoga, NY

July 1999 to Mar. 2000

- Performed thermal and structural analysis on High Voltage military transforms and power supplies.
- Conducted thermal structural theoretical calculations to validate computer models.
- Designed and tested mechanical structures to withstand military shock and vibration requirements
- Optimized layouts for electro-mechanical devices in military power supplies.
- Participated in design electro-mechanical panels for customers input and output connections.
- Developed standard thermal programs and implemented them into the Mechanical Engineering Department.

Diversified Technologies

Bedford, MA

June 1998 to July 1999

- Design and drafted electro-mechanical devices for layout of 10-30KV Solid State Power Supplies.
- Participated in design and fabricating mechanical elements for 100KV / 140KV Pulse Modulators.
- Conducted thermal analysis to optimize overall system cooling issues.
- Designed and developed front & rear interface panels for High Voltage enclosures.
- Standardized mechanical requirements for High Voltage systems, which also included procurement and cost analysis.
- Designed the mechanical frame and fabricated a 70KV transformer.
- Assisted in engineering, prototyping and assembly of numerous military projects.

General Electric (Co-op)

Schenectady, NY

Jan. 1996 thru Dec. 1997

- A total of 12 months of work while attending Northeastern University: Airfoil Division, Control and Accessories System Engineering Department, and Power Plant Engineering Group

Qualifications & Skills

- *Design Process and Problem Solving:* Green Belt Certified, 8D Problem Solving and Robust Design
- *Computer Applications:* Pro/Engineer Wildfire 2.0, MathCAD, Abaqus(FEA), Microsoft applications
- *Training and Classes:* Shock and Vibration of Electronics Equipment, Solar Loading, Design Experiments (DOE) and Geometric Dimension and & Tolerancing – ASME-Y14.5-1994
- *Certificates:* Passed the Engineering in Training (EIT) examination in 1998
- *Machine Operation:* Experience with a Bridgeport, lath, sheet metal bender and common machining tools for fabrication

Education

Union College

Schenectady, NY

August 2003

- Masters of Science Degree in Mechanical Engineering – GPA 3.31

Northeastern University

Boston, MA

June 1998

- Bachelor of Science Degree in Mechanical Engineering – GPA 3.075

Hudson Valley Community College

Troy, NY

August 1995

- Associated Degree in Math and Science – GPA 3.24

Home Inspection Experiences

- Owned and operated Top Gun Inspection Services Jan 2012 to Present
- Approved licensed New York State Home Inspector Technical Instructor, which I currently teach at Certified Adult Training (CATS) of Albany Home Inspection School. Jan 2013 to Present
 - Currently the lead instructor at CATS of Albany
 - Teach every Tuesday class and monitor every Saturday mock home inspection
- Coauthored with Dan Osborn CATS text book, "Practical Guide to Being a Home Inspector, Conducting Home Inspections and Starting/Operating/Marketing your Business". This book was approved by the New York State and is used in all four CATS schools Jan 2012 to Jan 2013
- Successfully completed the 12 hour International Association of Certified Home Inspectors, "How to Perform a Mold Inspection" October 2015
- Successfully completed the 32 hour New York State Department of Labor Mold Assessor Training Class October 2015
- Approved licensed New York State Mold Assessor, which I am lead the instructor for all of CATS Schools October 2015

Certificate of Completion

This certificate is awarded to

Josef M. Fasolino

For successfully completing the International Association of Certified Home Inspectors' online course and examination on the topic of
How to Perform Mold Inspections



Issued by the International Association
of Certified Home Inspectors
1750 30th Street
Boulder, CO 80301

Issued On:	10/7/2015
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