

JOHN P. HUFFMAN, P.E., PMP

EDUCATION

1980 to 1984 University of Missouri Columbia, Missouri
BSME with Honors Scholar Designation

1984 to 1985 University of Missouri Columbia, Missouri
MSME

PROFESSIONAL EXPERIENCE

March 2009 to Present MK & Associates, LLC
Consulting Mechanical Engineer

Provides investigation, analysis and litigation services in the fields of mechanical systems and equipment, mechanical design and strengths of materials, machine safety, and human interaction, playground equipment, auto/bicycle/pedestrian accidents and reconstruction, construction accidents, engineering construction claims, HVAC and building performance issues, warehouse storage systems, and equipment and failure analysis.

November 2012 to Present Schneider Electric
Senior Staff Program Manager

Provides program and project management for pre-fabricated data center solutions and designs, strategic planning for resources, budgets, project planning, and product roadmaps. Includes development of individual systems and components for these solutions and engineering design consultation for structural assemblies, sheet metal parts and enclosures, bolted joints and fasteners, gaskets and sealing methods, heating and cooling loads and equipment selection.

August 2010 to Present 9 Square In The Air, LLC
Co-Owner / VP of Operations and Engineering

Provides manufacturing, logistics, and engineering support for recreational game manufacturing company. Developed mechanical design innovations for recreational game, 9 Square In the Air, that resulted in 2 patents and launched production, product sales and marketing efforts. Successfully moved manufacturing to external manufacturers to minimize cost and increase production rates to meet sales volume. Launched logistics program with a 3rd party warehouse and fulfillment organization to further increase order fulfillment capacity. Continues to make design improvements to game for improved reliability, reduced warranty costs, and reduced product cost to manufacture. Also, leading development efforts for new and innovative versions of game for new markets.

March 2010 to November 2012

A123 Systems, Inc

Program Manager

Program and project management for operating and control systems for utility industry battery storage facilities. Included interface with customer/industry BMS, BacNet, and SCADA systems. Communicated directly with the organization and executive team via periodic review cycles.

October 2007 to October 2008

Nordyne, Inc.

Program Manager

Company-wide oversight of all project activity utilizing industry best practices for project management and mechanical engineering. This included development of a new project management methodology (phase gate project life cycle), creation of training materials and company-wide rollout to 180+ employees. Provided oversight of company HVAC development projects, mentored project managers and provided hands-on mechanical engineering expertise when required for design, analysis, trouble shooting and application issues. Products included residential and light commercial refrigeration and gas furnace products. Communicated directly with the organization and executive team by conducting monthly program reviews, project phase gate reviews and coordinated efforts between project and technology leaders.

March 2005 to October 2007

American Power Conversion

Staff Program Manager

Managed and directed project staff on multiple product development projects for data center cooling applications, product improvements and facility expansion with project budgets in excess of seven million dollars. Provided hands-on mechanical engineering expertise when required on all projects under my direction including customer interfacing for applications, installation, and trouble shooting. Participated in design efforts on structural assemblies, sheet metal components, plastic injection molded components, design and analysis of bolted joints, and door hinge/latch/lock systems for IT server cabinets. Led project to develop APC's first award winning cooling product—InRow RC. Most successful cooling product in company history with annual sales of over eighteen million dollars. Also led product improvement and sku reduction effort on perimeter cooling air conditioning product line with estimated annual savings of two million dollars.

January 1997 to March 2005

Crane Merchandising Systems

Director of Operations – Spare Parts (2001-2005)

Spearheaded formation of a ten million dollar spare parts division of the company, directed the operations side of the division to achieve world class performance levels in less than fourteen months. This position included supervision of warehouse operations and familiarity with pallet rack systems and order picking/moving vehicles. Achieved world-class performance: 97% order fill, backorders one tenth of previous levels, call center response under thirty seconds and 25% net profit. Also developed and led black belt certification project, which reduced inventory by two million dollars. Led additional process improvement projects for labor reduction.

Engineering Manager – Refrigeration (1997-2001)

Managed a highly effective team of project engineers, technicians and designers in development of new refrigeration systems for vending machines. Provided hands-on mechanical engineering expertise alongside

the team, as required. Led projects to improve mature products for annual cost savings of two-hundred-thousand dollars with 75% reduction in warranty claims. Also developed patented cooling system for the first ever outdoor snack vending machine. Design activity included sheet metal components and assemblies, plastic injection molded parts, extrusions, gaskets/seals design and their applications, refrigerant piping sizing and design, and complete refrigeration system design, analysis, and certification testing.

January 1990 to January 1997 Marlo Coil—Nuclear Cooling, Inc.
Engineering Manager

Led company engineering and design projects for custom HVAC products, including new product certification and testing. Provided hands-on mechanical engineering expertise alongside team in areas of structural analysis of coil casings and custom air handler base structures, lifting lugs and attachments for crane lifts, sheet metal enclosure design for internal pressure and leakage requirements, sheet metal component design, design and analysis of bolted and welded joints, design and analysis of brazed refrigerant tubing joints, and ASME Section VIII Pressure Vessel design and certification for high pressure coil applications. Products included steam, refrigeration and water coils and custom air handlers with controls, refrigeration and gas/electric furnace modules. Managed numerous special projects for clean room, nuclear, ASME, and DOD products. Also, directed process improvement initiatives and system enhancements to streamline order processing and design. Reduced time for orders to manufacturing floor from several days to one hour.

January 1989 to January 1990 Watlow Electric
Engineering Manger—Custom Heater Products

Led engineering and design projects for custom electric heater products from customer inquiries through manufacturing implementation. Provided hands-on mechanical engineering expertise alongside team of designers and technicians.

July 1985 to January 1989 McDonnell Aircraft Company
R&D Engineer—Thermo & Propulsion

Provided engineering analysis and support in thermodynamics and heat transfer areas for internal company research and development projects. Project work included computational heat transfer analysis, verification testing, and airflow distribution analysis for avionics cooling.

SKILLS AND CERTIFICATIONS

Missouri P.E. License, No. 025028

Illinois P.E. License, No. 062.062266

Florida P.E. License, No. P.E. 71125

Colorado PE License, No. 45260

Certified Safety Engineer By Missouri Division of Labor Standards

Project Management Professional Certification (PMP), Project Management Institute (PMI)

Lean Six Sigma Black Belt Training and Certification, Lean Enterprise Institute

Computer Skills: Microsoft Office, Microsoft Project, Lotus Notes, AutoCAD, Solidworks 2012 3D/2D CAD

ADDITIONAL TECHNICAL TRAINING

2009: University of Central Missouri, Missouri Safety Center, “On-Scene Accident Investigation”

2009: University of Central Missouri, Missouri Safety Center, “Pedestrian/Bicycle Accident Reconstruction”

2010: University of Central Missouri, Missouri Safety Center, “Crash Investigation Series 1 through 6”

PATENT AWARDS

Co-Inventor, U.S. Patent No. D650,445, Multi-Player Nine Square, Three Dimensional Game (December 2011-Assignees: Steve Otey and John Huffman.)

Co-Inventor, U.S. Patent No. D656,995, Multi-Player Nine Square, Three Dimensional Game (April 2012-Assignees: Steve Otey and John Huffman.)

Co-Inventor, U.S. Patent No. 6,378,324; Thermally Regulated Storage Cabinet (April 2002—Assignee: Crane Co.)

Co-Inventor, U.S. Patent No. 6,367, 895; Enhancement to Accommodate Tall Beverage Containers in an Automatic Merchandiser (April 2002—Assignee: Crane Co.)

Co-Inventor, U.S. Patent No. 6,301,908; Apparatus and Method for Making and Dispensing Ice (October 2001—Assignee: Crane Co.)

Co-Inventor, U.S. Patent No. 6,170,285; Vending Machine (January 2001—Assignee: Crane Co.)

PROFESSIONAL MEMBERSHIPS

National Academy of Forensic Engineers

- Correspondent

Member, Society Of Automotive Engineers

Member, American Society of Mechanical Engineers

Member, Project Management Institute (PMI)

Member, American Society of Heating, Refrigerating and Air-Conditioning Engineers

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