

# Jason W. Short, P.E. M.ASCE

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## About

Professional Engineer (Multiple State Licensure) with advanced engineering skills and knowledge to design structures, enhance the manufacturability of products, make existing products and processes more profitable, along with developing new and emerging technologies.

## Education

Bachelor of Science Mechanical Engineering, November 2003

Rose-Hulman Institute of Technology

Terre Haute, IN

## Related Courses &

## Qualifications

- Advanced in AutoCAD, Mechanical Desktop, Microsoft Office Products, Chief Architect
- 3-D modeling software experience: Pro-E/I-DEAS/SolidWorks
- Fluid and Thermal flow systems, Electrical Systems, Dynamics, Materials Testing, MATLAB
- Machine Design, Propulsion Systems: Gas Turbines, Computer Applications, Measurements Lab, Biomaterials: Artificial Organs, Advanced Structures Materials
- Experience with SAP R3
- Six Sigma Greenbelt Certified, FLASH Certified
- Sales experience/expertise
- Upper management/decision making
- Registered Professional Engineer (2008) in Florida, Kentucky, Georgia, North Carolina, South Carolina, Virginia, Texas, Michigan, Tennessee

## Experience

Mills, Short & Associates      January 2014 – Present      Vero Beach, FL

### **Managing Partner/Principal Engineer**

- Design and consulting engineering (national & regional projects)
- Specializing in construction management, structural design, civil engineering, and mechanical engineering
- Non-threshold, Special Inspections on structures, connections, welds, and specialized construction elements
- Project management from concept through implementation
- High-end commercial and residential project structural design and inspection
- Aluminum/steel/concrete/CMU/wood frame structure design from concept through implementation
- Full structure design from conceptual through all aspects of permit approval (Architectural Design, Civil Engineering/Site Plan, Structural Engineering, Mechanical, Electrical, and Plumbing Engineering)
- Pool structure/equipment engineering
- Special foundation & shoring design/engineering / Coastal Engineering structure design
- Site specific shutter/hurricane protection applications
- Product design/implementation/code compliance/certification
- Site specific component/cladding calculations/MWFRS design
- Grew client base and revenue from \$180k in 2014 to +/- \$4 million in 2024

JLS Engineering Consultants, LLC      June 2009 – 2014      Vero Beach, FL

### **Owner/Principal Engineer**

- Design and consulting engineering (national & regional projects)
- Specializing in construction management, structural design, civil engineering, and mechanical engineering
- Project management from concept through implementation
- Aluminum/steel structure design from concept through implementation
- Pool structure/equipment engineering
- Foundation design/engineering
- Site specific shutter/hurricane protection applications
- Product design/implementation/code compliance/certification
- Site specific component/cladding calculations
- Tripled client database/workload/projects in 3 years

**Project Engineer/Sales Consultant/Management**

- Managing day to day activities of field workers/supervisors
- Direct involvement with glass/window/door/hardware suppliers
- Familiar with glass composition, fabrication, and implementation
- Designing/implementing custom heavy glass showers/mirrors/custom storefront systems
- Performing structural calculations on shower enclosures/fixed glass framing
- Increasing productivity of existing shop floor
- Efficiently analyzing/organizing production processes to enhance profitability/maximizing output along with minimizing input
- Using Six Sigma principles to create a more productive and efficient workplace
- Managing builder accounts on window/door projects from beginning to end
- Working to expand companies portfolio of products and services to increase exposure/profit
- Analysis of components for cladding/ensuring all products meet or exceed current building codes for specific applications
- Familiarizing sales staff with updated local and state building codes and regulations
- Highly involved with architects and engineers in the design and creation of new/existing homes
- In-house Registered Florida Professional Engineer (Civil/Structural)

Louis Poulsen Lighting, Inc.

April 2005 – January 2006

Fort Lauderdale, FL

**Project Engineer**

- Customizing/designing lighting fixtures using AutoCAD/I-DEAS 3-D modeling software
- Upgrading current products/product development
- Project leader on updating the in-ground product line
- Working with manufacturing to resolve customization/current issues
- Leading projects from design concept through production
- Working with international external/internal customers to facilitate product design needs
- Troubleshooting field problems/supporting outside customer needs
- Determining structural safety of light poles/fixtures
- Designed parts for injection molding/casting
- Worked with outside vendors to coordinate prototype parts for fixtures

Whirlpool Corporation

April 2004 – April 2005

St. Joseph, MI

**Aerotek CE/IKEA Engineer**

- Interacting with international customer to support needs, as well as meet production deadlines
- Working on developing new products for the IKEA brand which includes free standing ranges, cooktops, hoods, and built-in ovens
- Performing safety audits on new design concept to qualify product for production
- Designing wiring harness to suit new design concept for cooktop
- Generating lists of hazards and tests to support safety documentation/code requirements
- Interacting with test engineers to set up appropriate testing for performance and safety issues
- Solving current problems with the product to make it a more robust design
- Updating product literature to represent changes to product/qualify product for safety requirements
- Coordinating distribution issues with logistics team which led to creation of new distribution strategy
- Worked with all product lines including refrigeration, dishwashing, and cooking to implement new distribution requirements from IKEA
- Saw product through all facets of design from concept to production
- Highly involved with manufacturing, pre-pilot, pilot, pre-production builds
- Coordinated project with all parties including marketing, production, compliance/testing, management
- Lead team meetings weekly to update/resolve current issues throughout projects

**Manufacturing Engineering Intern**

- Updated facility/area drawings
- Coordinated area moves to facilitate production
- Led project to increase production as well as make workplace stations safer, more efficient
- Supervised group of maintenance union workers on 2nd shift during plant shut down
- Participated in making production line changes in largest engineering change to vehicle ever taken place within corporation

Honeywell ALS Division

Summer 2000, '01, '02

South Bend, IN

**Projects Engineering Intern '01, '02**

- Developed layout for new front/security desk and security system
- Leader of production enhancement machine move which dropped travel time of parts 90%
- Led project on the filling-in of empty machine pits
- Updated AutoCAD Drawings of entire facility
- Led project on ventilation systems for part of facility
- Designed pneumatic actuator lift to remove paint from existing aircraft wheels for repair and overhaul sites throughout the U.S.
- Assisted in project for repair of existing fire water tank
- Designed chemical treatment system for inner-loop of Carbon Vaporization Chamber which produced estimated cost avoidance of nearly \$1 million dollars per year
- Obtained Six Sigma Greenbelt Certification for chemical treatment system
- Produced study on facility mobile equipment to find ways to reduce fleet, maintain existing fleet, as well as replace outdated members of mobile equipment

**Manufacturing Engineering Intern '00**

- Created tool listings for Carbon Friction Machine Shop
- Involved with high paced, manufacturing environment including heavy machinery
- Took part in tooling cost and analysis study for new carbon cutting machine
- Found relationships between machining feed speeds, types of cut, and materials that are cut
- Created machining packets for the machinists to reduce time/enhance production by 75%
- 4-Year Varsity Football Letterman
- Member of Phi Gamma Delta Fraternity
- Rock Band Member, Played at "Music for Miracles" which supported FDNY effort
- All-State Football Jr. and Sr. Years, All-State Honorable Mention in Baseball Sr. Year
- Received Academic All-State in Football Sr. year, Received Indiana Academic Honors Diploma
- Received Nomination to the United States Military Academy from Congressman Fred Upton

**Interests and Activities****Awards received**