

JONPAUL TURNER

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EXPERIENCE

Billion Oyster Project

New York, NY

Mechanical Engineer II - Design/Manufacture Team Lead

Oct 2018 - Current

- Lead three project teams through the design and manufacturing of oyster reef structures.
 - Including product design, cost analysis, prototype testing, and manufacturing management.
 - Create and execute production plans and schedules. Write progress reports on production.
- Develop production processes, jigs, and tools. Changes have allowed production to scale from <100 reef structures in 2017 to >400 structures in 2018.
- Analyze designs and processes to improve quality, minimize costs, and maximize production output.
- Coordinate suppliers to procure equipment, consumables, and materials for manufacturing.
- Hire and train welders and fabrication staff as needed to complete projects.

Mechanical Engineer

Jan 2017 - Oct 2018

- Designed welded steel oyster reef structures for storm mitigation and environmental restoration. Structures contained 250,000 lbs of oyster shell and covered over 5 acres of New York City's harbor.
 - Created CAD models and production-ready drawing packages.
 - Reduced cost of reef structures by 35% per cubic foot of oyster habitat restored.
- Served as a mentor and educator to engineering students at New York Harbor School.

Lumencache

Indianapolis, IN

Product Development Engineer

Mar 2016 - Oct 2016

- Project manager for UL safety certification of entire product line of smart home power systems.
 - Wrote 30+ user manuals and data sheets for listed products.
 - Oversaw successful electrical/thermal safety testing through Intertek NRTL.
- Managed supply chain of Asian and American suppliers and contract manufacturers.
- Designed plastic and sheet metal electronics enclosures for prototypes and full production runs.
- Provided technical and engineering support for teams of up to 20 electricians and product installers over the phone and on construction sites during system installation.

Liquid Piston Inc.

Hartford, CT

Engine Development Intern

Sept 2015 - Mar 2016

- Designed 50+ different experimental rotary engine components for DARPA funded research project.
- Created drawing packages for CNC manufacturing of components following ASME Y14.5.
- Assembled prototype engines for testing. Disassembled after tests and performed failure analysis.

EDUCATION

Clemson University

Clemson, SC

Bachelor of Science in Mechanical Engineering

August 2015

ADDITIONAL INFORMATION

- Strong prototyping skills. MIG/TIG welder and manual machinist. Experienced with FDM 3D printers.
- Certified Solidworks Professional (CSWP). Proficient in other CAD packages including Fusion 360.
- Race car driver and builder. Fabricate parts, repair cars, and compete in endurance races.