

MCLEAN (MAC) STEPHENS

MECHANICAL ENGINEER

mcleanstephens@gmail.com

(512) 740 – 4465

Houston, TX 77009

PROFILE

Innovative Mechanical Engineer with 4 years' experience specializing in designing of fixtures and machines for new product development. Proficient at coordinating the manufacturing and procurement activities for developing and testing components. Skilled at working on cross-functional teams including outside contractors, external vendors, and high-profile clients to drive world-class technical solutions. Motivated engineer with demonstrated expertise in problem solving, communication, and process improvement while meeting and exceeding expectations.

EXPERTISE

- Mechanical Engineering
- Research & Development
- Welding
- Inspection Systems
- Manufacturing Operations
- Manual Mills & Lathes
- 3D printing
- Product Design
- Solidworks
- Jigs and Fixtures Design

WORK HISTORY

DOOSAN TURBOMACHINERY

June 2018 - Present

Stationary Components Engineer

- Evaluate and estimate repair time for incoming stationary combustion components from natural gas turbines for repair.
- Use 3D software (Solidworks) to evaluate distortion of individual combustion segments and design custom replacement components.
- Work with a small team of other specialized engineers to insure that the repair/remanufacturing process of the complete turbine finishes per the customers deadline.
- Use an iterative process to constantly look for areas of the repair process to improve upon.
- Order/replace/manufacture custom components for repair of components.

BPM MICROSYSTEMS

Feb 2015 – June 2018

Mechanical Engineer

- Design and manufactured pick and place programming machines for microchips/ micro machines in a research and development team.
- Developed products by studying customer requirements, researching, and testing manufacturing and assembly methods and materials.
- Analytically evaluated mechanical and electromechanical systems and products by applying principles of mechanics, thermodynamics, hydraulics, heat transfer, and material sciences.
- Ensured system and product feasibility by designing and implementing quality test methods. Confirmed fabrication, assembly, and installation processes.
- Retrofitted outdated machines with cutting-edge technology to increase performance and throughput involving 3D vision inspection systems, laser alignment, pneumatic systems, and laser marking. Created step-by-step assembly instructions for new products and field upgrades.
- Designed, tested, and implemented a new wave of device programming sockets, manual programming housings, and life cycle testing jigs.
- Assisted with proper installation at client site. Worked on CE certification of machine to ensure passing of environmental health and safety tests.

BRAY CONTROLS

Apr 2014 – Feb 2015

Mechanical Engineer

- Successfully led a setup reduction project for multiple CNC machines decreasing setup time and changeover by 80% resulting in increased production and decreased cost per unit.
- Collaborated with Engineering, Materials, Operations, and Final Assembly work streams in design reviews for new product fixtures. Involved in designing of jigs and fixtures for machining, new product line of valve fixtures, and picking out tooling.
- Designed fixturing for R&D prototype parts and monitored design reviews to evaluate changes for existing fixtures. Designed production valves ranging from 3-48" ID. Created detailed operation instructions for specific components for utilization in larger assemblies.

ETS LINDGREN

Apr 2014 – Feb 2015

Mechanical/Manufacturing Engineering Intern

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EDUCATION & TRAINING

TEXAS TECH UNIVERSITY

BS in Mechanical Engineering Technologies

2014

TEXAS STATE TECHNICAL COLLEGE (TSTC)

Associate of Science in Mechanical Engineering Technologies

2011

CERTIFICATIONS

MasterCAM Level I, SolidWorks Level I