



Brendan Najarro

Mechanical Engineer

Profile

Technically orientated Mechanical Engineer with over six years experience in reliability and maintenance activities within a clean room environment. Highly adept with mechanic supporting sanitation systems and equipment. Completed a Masters Degree in Thermodynamics and holds a Professional Engineering license.

Employment History

Mechanical Engineer III at Zimmer Medical Devices, Fort Lauderdale

May 2018 — Present

Responsible for reliability testing of more than 30 pieces of outdated machinery and improved their efficiency by 70% with minor design tweaks.

- Test CNC machinery and equipment to ensure they function correctly and schedule preventative maintenance activities
- Coordinate reliability testing and devise planned maintenance schedules to coincide with commissioning activities
- Facilitate the safe testing and commissioning of all high voltage machinery and equipment
- Make sure all PLC are tested and maintained according to the operational requirements of the plant

Mechanical Engineer II at Corneing Thermodynamics, Tewksbury

January 2017 — May 2018

Part of the product development team that conceptualized more than 15 thermal devices in the last quarter and received a 100% pre-approval rating for all prototypes presented.

- Support the entire production process regarding quality inspections and cost improvement initiatives.
- Collaborate with mechanical packaging-designers and electrical engineers to define upcoming projects in terms of timeframes, financial resources, and allocation of labor
- Create 2D and 3D schematics and drawings on Solidworks and AutoCAD
- Monitor project progress, record test results, write quality reports and submit to senior engineer for final approval

Mechanical Engineer I at Confluence Devices, Borger

January 2016 — December 2016

Improved the undisrupted equipment reliability by adding two extra planned maintenance schedules per quarter resulting in zero shutdowns due to machine failures in the last 12 months.

- Design product concepts, build prototypes and conduct testing and validation on Class I medical devices
- Establish ongoing relationships with potential overseas private equity firms to secure funding for commercialization of pilot products

Details

1515 Pacific Ave, Los Angeles, CA 90291, United States, (541)

754-3010

email@email.com

Place of birth

San Antonio

Nationality

American

Driving license

Full

Links

[Github](#)

[Linkedin](#)

[Facebook](#)

Skills

Nanotechnology

Robotics

Design

Physics

SolidWorks

Autodesk Revit

Product Testing

Mathematics

Thermodynamics

Pneumatics

Quality Control

Coding

Data Assimilation

Autocad

Python

- Interact with potential manufacturers and create proposals to set up assembly lines, packaging requirements and production specifications
- Define product specifications, wrote inspection and testing manuals and draft failure analysis reports
- Propose design improvements and redesign suggestions to the product development team to correct problems with prototypes

Languages

English, Russian

Education

Professional Engineering (PE) Exam,, National Council of Examiners for Engineering and Surveying (NCEES), Seneca

June 2019 — June 2019

Doctor of Philosophy in Mechanical Engineering, University of North Carolina, Charlotte

June 2019 — Present

Thesis Topic: Micro-electromechanical systems design and design optimization in Class II Medical Device applications

Certified Mechanical Inspector,, The International Association for Plumbing and Mechanical Inspectors, Los Angeles

May 2017 — May 2017

Certified Manufacturing Engineer, Society for Manufacturing Engineers, Deerborn

January 2016 — June 2016

Master of Science: Mechanical Engineering,, University of Minnesota, Minneapolis

June 2015 — June 2017

Bachelor of Science: Mechanical Engineering, University of Minnesota, Duluth

June 2011 — June 2014

GPA of 3.75

Curriculum: Mechanics of Materials, Visual Thinking, Mechanical Systems Design. Thermodynamics

Courses

Advanced Civil 3D and Reality Capture, CAD Masters Inc., Sacramento

September 2018 — November 2019

3D, Revit and Navisworks Course, Applied Software Training Center, Atlanta

July 2016 — August 2016