

Brendan Najarro

Mechanical Engineer



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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

May 2018 – Present

FORT LAUDERDALE

Mechanical Engineer III

Zimmer Medical Devices

Responsible for reliability testing of more than 30 pieces of outdated machinery and improved their efficiency by 70% with minor design tweaks.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

Jan 2017 – May 2018

TEWKSBURY

Mechanical Engineer II

Corneing Thermodynamics

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

Jan 2016 – Dec 2016

BORGER

Mechanical Engineer I

Confluence Devices

Improved the uninterrupted 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
- 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

Education

Jun 2019 – Jun 2019

SENECA

National Council of Examiners for Engineering and Surveying (NCEES)

Professional Engineering (PE) Exam,

Jun 2019 – Present

CHARLOTTE

University of North Carolina

Doctor of Philosophy in Mechanical Engineering

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

May 2017 – May 2017

LOS ANGELES

The International Association for Plumbing and Mechanical Inspectors

Certified Mechanical Inspector,

Jan 2016 – Jun 2016

DEERBORN

Society for Manufacturing Engineers

Certified Manufacturing Engineer

Jun 2015 – Jun 2017

MINNEAPOLIS

University of Minnesota

Master of Science: Mechanical Engineering,

Jun 2011 – Jun 2014

DULUTH

University of Minnesota

Bachelor of Science: Mechanical Engineering

GPA of 3.75

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

Skills

Nanotechnology



Thermodynamics



Robotics



Pneumatics



Design	● ● ● ● ●	Quality Control	● ● ● ● ●
Physics	● ● ● ● ●	Coding	● ● ● ● ●
SolidWorks	● ● ● ● ●	Data Assimilation	● ● ● ● ●
Autodesk Revit	● ● ● ● ●	Autocad	● ● ● ● ●
Product Testing	● ● ● ● ●	Python	● ● ● ● ●
Mathematics	● ● ● ● ●		

Courses

Sep 2018 – Nov 2019

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

Jul 2016 – Aug 2016

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

Languages

English, Russian

