



# Brendan Najarro

Mechanical Engineer

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PLACE OF BIRTH San Antonio

NATIONALITY American

DRIVING LICENSE Full

LINKS [Github](#), [Linkedin](#), [Facebook](#)

## 01 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.*

## 02 EMPLOYMENT HISTORY

May 2018 — Present  
Fort Lauderdale

### Mechanical Engineer III at 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*Responsible for reliability testing of more than 30 pieces of outdated machinery and improved their efficiency by 70% with minor design tweaks.*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 at 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 at Confluence Devices

*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
- 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

## 03 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

## 04 SKILLS

Nanotechnology



Thermodynamics



Robotics



Pneumatics



Design



Quality Control



Physics



Coding



SolidWorks



Data Assimilation



Autodesk Revit



Autocad



Product Testing



Python



Mathematics



## 05 COURSES

Sep 2018 — Nov 2019

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

Jul 2016 — Aug 2016

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

## 06 LANGUAGES

English, Russian

