



BRENDAN NAJARRO

Mechanical Engineer | LOS ANGELES, CA 90291, UNITED STATES | (541) 754-3010

◦ DETAILS ◦

1515 Pacific Ave, Los Angeles, CA
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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

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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

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Responsible for reliability testing of more than 30 pieces of outdated machinery and improved their efficiency by 70% with minor design tweaks.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
- Interact with potential manufacturers and create proposals to set up assembly lines, packaging requirements and production specifications

LANGUAGES

English, Russian

- 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

- 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