

Carlos Garcia

• Engineer • Python Developer • B.S. in Engineering



WORK EXPERIENCE

Manufacturing Engineer I – Full-time

At *Boston Scientific, Spencer, IN*

08/2021 – Present

- ◇ Developing an Application with **Python** and **SQL** that monitors manufacturing line's scrap, MUV rates and performance.
- ◇ Using **Python**, **SQL** and **Power BI** to create reports on data from the **Manufacturing Execution System**
- ◇ Working on a team to provide **data analysis** and identify trends to drive continuous improvement efforts.
- ◇ Leading improvement projects on the LithoVue Elite manufacturing line.

Validation Engineer – Full-time at FITS, LLC

Contracted by *Bristol-Myers Squibb, Manatí, PR*

11/2020 – 08/2021

- ◇ Provided technical expertise for **testing** new **equipment**, **facilities**, and **utilities** at Bristol-Myers Squibb manufacturing site.
- ◇ Developed **commissioning** and **qualification** protocols and reports applying standard engineering procedures, and **GMP** guidelines.
- ◇ Worked directly with project managers to complete **design**, **engineering**, and **construction projects** within schedule and budget constraints.

Mechanical Drafter – Part-time at DASA Group, Inc.

Contracted by *Boston Scientific, Dorado, PR*

01/2019 – 01/2020

- ◇ Created parts, assemblies, technical drawings, and documentation using **SolidWorks** software to **remotely support fixture design projects**.
- ◇ Ensured compliance with **Geometric Dimensioning and Tolerancing** (GD&T) per ASME Y14.5M-1994 guidelines.
- ◇ Leveraged proficiency in **project management** and **CAD software** to support projects for **Boston Scientific**.

Mechanical Engineer – Full-time Co-op

At *Boston Scientific, Dorado, PR*

07/2019 – 12/2018

- ◇ **Collaborated with multifunctional teams** to develop innovative **design solutions for fixtures, machinery and equipment** used to manufacture implantable medical technologies.
- ◇ Used **SolidWorks** software for design development and for **Finite Element Analysis** of parts and assemblies.
- ◇ Developed design drawing packages adhering to **GD&T** guidelines.
- ◇ Spearheaded a **Corrective and Preventative Action (CAPA)** project by developing an all-new coil cutting fixture design.

PROJECTS

Mechanical Design Lead & Project Manager

3D RUM, 3D Printer Design

08/2017 – 05/2020

Mechanical Engineering Lead & Project Manager

RUMarino, Autonomous Underwater Vehicle Project

08/2016 – 12/2019

CONTACT

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EDUCATION

Bachelor of Science, Mechanical Engineering

University of Puerto Rico, Mayagüez

Graduated – Magna Cum Laude 🏆
08/2014 - 06/2020

GPA: **3.92 / 4.00**
Major GPA: **4.00 / 4.00**

SKILLS

Software / Systems Proficiencies

Python	★★★
SQL	★★☆
VBA	★★☆
JavaScript	★★☆
Git & GitHub	★★☆
MS Apps	★★★
Power BI	★★☆
PowerShell	★☆☆

Validation / Manufacturing Skills

- ◇ Manufacturing Execution Systems
- ◇ IQ, OQ, PQ & GMP knowledge
- ◇ Computer Software Validation

Technical Skills & Competencies

- ◇ Data Science
- ◇ Statistical Analysis
- ◇ Analytical Skills
- ◇ Debugging and Troubleshooting

Soft Skills

- ◇ Personal Responsibility
- ◇ Teamwork and Collaboration
- ◇ Self-Awareness

Languages

- ◇ English, Fluent
- ◇ Spanish, Native

CERTIFICATIONS

- ◇ Lean Six Sigma Yellow Belt
- ◇ SolidWorks Certified Associate, Mechanical Design