Daniel E. Bigott L.

MECHANICAL **DESIGN ENGINEER**

PERSONAL **INFO**

N: Venezuelan

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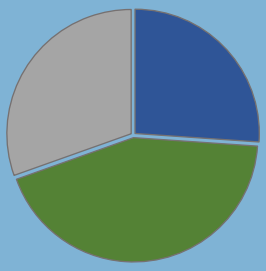
P. **SKILLS**



SYS. **ENGINEERING**

MECH. **ENGINEERING**

PRODUCT **DESIGNING**

SOFT **SKILLS**

- Self-motivation
- Problem solving
- Creative thinking
- Flexibility
- Teamwork
- Time management
- Adaptability
- Autodidact

ABOUT

Imagination, curiosity, and research are pillars that have sustained who I am; continually seeking to know why and how things work and how these could be improved, as a consequence of this has surfaced my vocation, a Mechanical Designer Engineer. The core of my motivation grows as I face new unanswered questions; be self-taught have been crucial in many opportunities. Nevertheless, from the beginning, the experience has always shown me that teamwork is the key; otherwise, the round table of Arthur's kingdom will be summarized at just one single chair.

WORK EXPERIENCE

PRESENT - 2015 . **AMPYX POWER**

DEN HAAG, THE NETHERLANDS

I. Full ownership of the whole design line of aircraft, drone and industrial mechanisms, from the conceptual phase to verification and validation.

II. Developing and managing system requirements derived from the client's demands, as well as system tree, interfaces, item control, and safety analysis.

III. Creating, assessing and approving, concepts for groundbreaking products.

IV. De-risking conceptual products through experimental tests, research, or partnership with third parties.

V. Securing traceability of design, workflows, decisions, and statement of work.

VI. Studying product feasibility and reliability.

VII. Creating and reviewing design justification documents per milestone, where FEM analysis, static, and dynamic analysis are needed to back them up.

VIII. Creating and reviewing CAD models and manufacturing drawings in accordance with ISO standards and GD&T.

IX. Selecting mechanical components and electronics sensors such as actuators, load cells, rotary encoder, proximity sensor.

X. Optimizing mechanism functionality to infinite life as well as mass reduction.

XI. Building and evaluating prototypes in order to validate requirements or final assessment before the manufacturing process.

XII. Interacting or seeking new suppliers and manufacturers required to fulfill the project.

XIII. Interacting with external departments to evaluate and track geometrical and performance interfaces.

XIV. Temporarily managing and leading junior engineers.

HARD **SKILLS**

- Solidworks 2013
- Inventor 2016
- Ansys 13
- Fusion 360
- Mathcad 14
- Mathcad Prime
- SAM Mechanism
- Staad Pro V8
- Arduino
- MATLAB
- Lumion 4D
- Blender
- Premiere Pro
- After effect
- Photoshop
- Microsoft Office

Workshop **SKILLS**

- 3 Axis CNC.
- Lathe machine
- Milling machine

Languages

- Spanish
- English

Extracurricular's

- Former swimmer
- Active athlete
- Product designer

2014 - 2015 . B+B Integrated technologies

CARACAS, VENEZUELA

I. Leader of mechanical design engineering, three engineers.
II. Performing reverse engineering to metallic structures and basic machines.
III. Managing and developing conceptual designs of modular bridges.
IV. Running FEM analysis to parts and sub-assemblies.
V. Running structural analysis using Staad PRO V8.
VI. Creating and reviewing CAD models and manufacturing drawings in accordance with ISO standards and GD&T.
VII. Parameterization of 3D models for market sensibility.
VIII. Selection and management of suppliers.
IX. Reviewing design justification documentation from junior/mid engineers
X. Managing resources' tasks .
XI. Creating and reviewing of spreadsheet, design justification, installation and maintenance handbooks.
XII. Planning and coordinating of commissioning and installations of small modular bridges.
XIII. Creating cost structure.

2011 - 2013 . FUNINDES USB

CARACAS, VENEZUELA

I. Developing conceptual, assembly and manufacturing drawings, bill of materials, under ISO and DIN standards.
II. CAD modeling over 200 replacement parts, including shafts, gears, sprockets, piping systems, large assemblies, etc.
III. Using metrology tools and machines for inspecting complex geometry.
IV. Developing manufacturing reports

EDUCATION

Mechanical Engineering Degree

Simon Bolivar University

CARACAS, VENEZUELA

Project Degree: Redesigning commercial motorcycle into electric.

Mechanical engineer student

President and founder of HUMAN POWERED SUBMARINE TEAM, where were coordinated administrative tasks, design and construction process need to create a human powered submarine which to participated in the biennial International Submarine Races (IRS) at Maryland, USA.

As team leader: coordinate administrative and technical tasks, such as money managing and collecting from sponsors and donations, handling legal documentation, head of R&D, supervising prototype designing, construction and testing.