



Freelancer / M.Sc. Mechanical Engineering / Wordpress Developer

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Location: Panamá City

### Summary

Major in Mechanical Engineering, interested in working in a variety of projects, with opportunities for professional and personal development, where innovation and training is encouraged. With expertise in CAD/CAM Design.

### Work experience

Feb 2020	--	<b>Freelancer at Remote Job Platforms.</b> <a href="#">Upwork / People per Hour</a> . Panamá, Panamá. Remote 3D Services, modeling for 3d printing, conceptual design, prototyping and rendering <i>Tools: Wordpress and 3d services provider.</i>
Feb 2021	Feb 2022	<b>Remote Segmentation Engineer.</b> <a href="#">Jajal Medical</a> . Panamá City, Panamá. Bone segmentation from medical images of more than 500 vertebral bones. <i>Tools: Mimics Materialise.</i>
Jul 2019	Feb 2020	<b>Product Support Engineer.</b> <a href="#">Smartmatic International</a> . Panamá City, Panamá. Industrial design support, conceptual design, prototyping and rendering for demo solutions. <i>Tools: Solidworks and Keyshot.</i>
Jan 2016	Jul 2019	<b>Remote CAD Designer.</b> <a href="#">Mecadesign3D</a> . Caracas, Venezuela. Remote 3D Services, modeling for 3d printing, conceptual design, prototyping and rendering. <i>Tools: Solidworks and Keyshot.</i>
Jan 2017	Dec 2017	<b>Investigation Adviser P1.</b> <a href="#">Department of Mechanical U.S.B.</a> Caracas, Venezuela. Group of Polymers II researcher. <i>Tools: Matlab and Minitab.</i>
Mar 2014	Jan 2016	<b>Engineer.</b> <a href="#">Implantes Genéricos Progen C.A.</a> Caracas, Venezuela. -Conceptual design and 2D and 3D drawings of implants and quirurgical instruments. -Technical Documentation and CNC Programming (CAM) and Post-Processor creation.. <i>Tools: Solidworks, SprutCAM, Machine Maker and Mimics.</i>
May 2013	Mar 2014	<b>CAD Designer.</b> <a href="#">Implantes Genéricos Progen C.A.</a> Caracas, Venezuela. Part-Time Working. Design and 3D drawing implants and surgical tools. <i>Tools: Solidworks.</i>
Jul 2013	Dic 2013	<b>Intern.</b> <a href="#">Precomprimido C.A.</a> Charallave, Venezuela. Development of an automated PLC control system for a batch and mixing plant of concrete. <i>Tools: Automation Studio, Siemens LOGO!Soft, STEP 7-Micro/WIN.</i>

### Most proud of

- Ability to provide design solutions
- Curiosity to learn new things with ability to adapt
- Capacity to work under pressure.

### Languages

Spanish

Native

English

Advance\* C2

Portuguese

Intermediate

### Awards

**2010.** Scout Service Distinction at Baruta.

Caracas, Venezuela.

**2008.** Student Distinction. Mayoralty

Caracas, Venezuela.

**2005, 2006 & 2008.**

Recognition Excelsior

Foundation. Student

Recognition Act Stimulus.

Caracas, Venezuela.

**2006.** Highlighted by Good Student Academic Achievement.

Caracas, Venezuela.

### Passions

Learning

Sports

Nature

Process Optimization.

**Education**

<b>Apr 2016</b>	<b>Nov 2019</b>	<b>M.S. in Mechanical Engineering.</b> <a href="#">Universidad Simón Bolívar (USB)</a> Caracas, Venezuela. Grade: 4.0/5 equivalent to 120 ECTS. <i>Master Thesis: Design of scaffolds using topology optimization for bone tissue regeneration devices.</i> Awarded as "Outstanding". <i>Lectures oriented to Design, Biomechanics and Numerical Simulation.</i>
<b>Jun 2018</b>	<b>Nov 2018</b>	<b>Teaching Diploma.</b> <a href="#">Research and development foundation of the USB (FUNINDES USB)</a> . Caracas, Venezuela. Six Months Program.
<b>Sep 2008</b>	<b>Apr 2014</b>	<b>Mechanical Engineering.</b> <a href="#">Universidad Simón Bolívar (USB)</a> Caracas, Venezuela. 5 years program equivalent to 300 ECTS. Grades 3.92/5. <i>Elective Lectures oriented to Automation, PLC and Ventilation.</i>
<b>Conferences</b>		
<b>Nov 2019</b>		Assistance and presentation. <a href="#">XIV Ibero-American Congress of Mechanical Engineering.</a> Cartagena, Colombia
<b>Oct 2017</b>		Assistance and presentation. <a href="#">VI Bioengineering Venezuelan Congress (BIOVEN).</a> <i>Bioengineering Venezuelan Society (SOVEB).</i> Caracas, Venezuela.
<b>Jul 2016</b>		<a href="#">XIII International Congress on Numerical Methods in Engineering and Applied Sciences (CIMENICS).</a> <i>Venezuelan Society for Numerical Methods in Engineering.</i> Caracas, Venezuela.
<b>Jun 2011</b>		<a href="#">Congress ASME USB 2011.</a> <i>Alternative Engineering.</i> Caracas, Venezuela.

**Other Tools**

**Design:** Solidworks, Inventor\*, AutoCAD\*, SketchUP Pro\*, Fusion 360\* and ANSYS\*

**Graphics Edition:** Gimp, Photoshop, Adobe XD\* and Figma\*.

**Calculus:** Matlab\*, MathCad and Octave.

**Automation:** Indusoft, Automation Studio, Siemens LOGO!Soft, STEP 7-Micro/WIN.

**Programming:** HTML\*, JS\*, CSS\*, Wordpress\*, PHP\*, Git\* y GitHub\*, Scrapy\*, Xpath\*, Java, C++, RPL and Arduino\*.

**Editors:** Visual Studio, Microsoft Office, Visio and Prezi.

**Management:** Jira.

**References**

Other references are available under request.  
 \*With Certificate

**Skills**

- ★ CAD Design
- ★ 3D Printing
- ★ Bone Segmentation
- ★ PLC Programming
- ★ Computer-Aided Manufacturing
- ★ CNC Programming
- ★ Web Development
- ★ Life Cycle Analysis
- ★ Rendering

**Training Courses**

**Jan 2021.** Scrapy Course. *Platzi*

**Nov 2020.** Scrum Professional. *Platzi\**

**Sep 2015.** Injection Mold Design. *Funindes USB\**

**Nov 2020.** WordPress Professional Course. *Platzi \**

**Aug 2016.** Fundamentals of Six-Sigma: Quality Engineering and Management. Edx-TUM

**Other Courses**

**Nov 2020.** EF SET English Certificate 78/100 (C2 Proficient).

**Mar 2014.** Leadership, management & entrepreneurship in the 21 Century. *Udemy\**

**Feb 2014.** Design Thinking: Innovate in Style. *Udemy\**

**Jan 2015.** Integral Speed Reading. *PILVE*

**Aug 2014.** Negotiation and Conflict Resolution. *Open2study.com*