



J.Valentin Guzman

Curriculum Vitae

Personal Overview

I have a special attraction to Mechanical Design, 3D Modeling and Reconstruction, also, I have a strong background on project management. I worked at Physical & Mathematical Science Research Center as an Opto-mechanical Developer where I made Biomed Applications and complex machines design felt inspired by the new project challenges, the startup of new processes and the creation of solid teamwork.

Education

2010–2016 **Bachelor of Mechanical and Electrical Engineering** , *Universidad Autonoma de Nuevo Leon*, Facultad de Ingenieria Mecanica y Electrica, .
Specialized in Mechanical Design

Experience

Vocational

17–Present **Mechanical Designer**, TAKATA HOLDINGS DE MEXICO, TAKATA TMTC, Stiva barragan 400, San Nicolas De Los Garza,NL, Mexico.
Mechanical Design and Automation, follow the philosophy of Lean Manufacturing focused in the automotive area

Detailed achievements:

- Learned how to work in group
- Learn how to work with industrial Philosophies given by our Principal Automotive clients Toyota & Honda :
 - working with industrial proceses and Quality Circles

2012–2017 **Opto-Mechanical Designer**, FIBER & LASER GROUP, Physical & Mathematical Science Research Center, UANL.

I have more than 4 years of Industrial Design experience, and strong product design and user experience skills. My work includes consumer electronics, medical devices, sustainable products, also Rapid Prototyping and production.

Detailed achievements:

- Learned how to work in group
- Learn how to work with Biomed Imaging :
 - Using a 3D Scanner using Anatomic Positions
 - Working with MRI & Ultrasound

2012-2016 **Mechanical Designer**, FUSION RESEARCH GROUP, FIME, UANL .

Developed spreadsheets for risk analysis on exotic Research and Development Center, My Work included a wide variety of mechanical designs, my main function was to test the simulation trustiness

Detailed achievements:

- Learned how to work under presion
- We developed more than 11 Patents, 11 Industrial Designs & one Utility Model
 - Work with Graphic design for Shows our patents
 - CAD-CAM
 - 3D Printing
 - CNC

2010–2011 **Mechanical Designer**, UDICYT, FCFM, Monterrey Mexico.

I was in charge of the development, Production and monitoring of new products like medical devices and didactic material for universities. We developed more Than 20 Machines designs

Accomplishments

2014-2016 Officer of OSA & SPIE Student Chapters

2016 Workshop At Optical Workshop "Rapid Prototyping" (OSA & SPIE UANL CHAPTER) Congress 2016,FCFM,UANL,Mexico

2016 Winner at "Premio a la Invencion UANL 2015"

- 5 at Patents Category
- 5 at Industrial Design Category
- www.premioinvencion.uanl.mx

2016 Workshop At Photon Educational Congress "3D Scanning & Printing" , Planetario Alfa,San Pedro,Mexico

2016 Workshop At Simposium de optica aplicada sustentabilidad y medio ambiente "3D Scanning & Rapid Prototyping" (SOASE) Congress 2016,FCFM,UANL,Mexico

Computer skills

Basic |Autodesk Fusion360, Inventor, Revit

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📄 facebook.com/beetmex • Main Designer & Founder

Intermediate | HTML, \LaTeX , | Adobe Illustrator, Photoshop, Lightroom, | Comsol Multiphysics, | MasterCam
Advanced | Dassault Systems SolidWorks, | Autodesk Autocad, Meshmixer, | Materialise Mimics, Trimatic, | 3D Systems Geomagic,

Communication Skills

2014 Poster Presentation At Latin American Optics and Photonics 2014, Cancun, Mexico
2015 Leadership Conference at Optics + Photonics 2015, San Diego, CAL
2016 Poster Presentation At Latin American Optics and Photonics 2016, Medellin, Colombia
2016 Course of Graphene and 2D-Structures Applied To communication Systems At Latin American Optics and Photonics 2016, Medellin, Mexico
2017 Poster Presentation at Photonic's west 2017 BIO & LASE CONFERENCE, San Francisco, CAL

Languages

Spanish **Mothertongue**
English **Advance** *Con conversationally fluent*
French **Basic** *first level*

Interests

| Drawing | Painting
| Cooking | Photography
| Digital Sculpting

References

Ph.D Romeo de Jesus selvas Aguilar, Reaserch Fellow, Director of the Physical-Mathematical Sciences Research Center at Universidad Autonoma de Nuevo Leon, MÃxico
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