

JOSÉ LUIS RODRÍGUEZ HERNÁNDEZ

CIVIL ENGINEERING | TECHNOLOGIST

ABSTRACT



I am passionate about human capital management, I identify with the Lean philosophy and the use of available technology to contribute and provide a different perspective on how to do engineering within the construction sector.



CAREER

Entrepreneur

2013 - Present

I offer consulting services on issues of process automation, management and coordination using BIM methodology and Lean philosophy within the construction industry. I also seek to support the new generations of professionals by offering courses, lectures and face-to-face training and on-line format.



Mexico

BIM Manager

May 2019 - September 2019

In charge of implementing the BIM methodology within technological and applied transfer processes for Infrastructure services related to Health and Safety, technological innovation and proposal of automation of traditional processes with BIM tools.



Spain

BIM Structural

septiembre 2017 - febrero 2019

Implementation of BIM in structural models, coordination of BIM and CAD models, support in the review of structural elements according to the established regulations, proposal of resolution of interferences with architectural elements. Analytical review and coordination of Revit-Etabs structural models. Generation of structural drawings and details. Modulation and structural pre-design. Structural design and calculation of buildings. Generation of standards within the HSEQ area in the drawing area. In charge of the drawing area to improve the interaction of drawing vs. structural design.



Mexico

BIM Design Innovator

May 2018 - August 2018

Responsible for the generation and modification of BIM standards and graphics for the regional staff. In charge of automating existing housing generation processes, review of minimum structural requirements and documentation processes through visual programming with Dynamo. Researched best practices for the use of confined masonry in housing for the improvement of the current design in the Philippine's offices.



Philippines

BIM Structural

July 2016 - September 2017

Implementation of BIM in Structural models, coordination of BIM and CAD models, support in the review of structural elements according to the established regulations, proposal of resolution of interferences with architectural elements. Analytical review and coordination of Revit-Etabs structural models. Structural design and calculation of concrete, steel and mixed buildings.



México

BIM Intern

January 2015 - August 2015

Generation of 3D modeling in Revit software in the architectural, MEP and structural area, model coordination, develop construction documents, application of BIM methodology.



México

Participation in relevant projects

Automation Slab Points | McCarthy
Structural design Construed | Ingenia Concretos
BIM Template design | MK Construction
Structural optimization Waffle-Crete | MK Construction
BIM Objects Waffle-Crete | MK Construction

Participation in relevant projects

Highway Risk Assessment Automation
Establishment of BIM implementation Framework
Improvement of Common Data Environment standards
Creation of protocols for the design of BIM objects

Participation in relevant projects

Tepeyac Park | Performance design of superstructure beams, shear wall design, pedestrian ramps, steel bridge design, CD review.
Tepeyac Park | BIM structural modeling phase DD.
Izazaga 11 | Structural proposal for bidding.
Aurea Interlomas | Structural BIM modeling 50 CD.
Be Grand Reforma | Continued modeling 50 CD to 100 CD.

Participation in relevant projects

NAICM | Design base plates and secondary structures of the arrival area. Modification of structural design changes in BIM DD model.
Carso III | Design of access ramps, design of concrete beams, superstructure office building. BIM pilot project and structural interoperability.

Participation in relevant projects

Middlex Sex Pentenciaria | BIM MEP model update to As-Built.
Residential house CDMx | As-Built modeling from point cloud.
Alia | Architectural modeling support and Construction Documents

I.D.E.A.S BIM Intern August 2014 - January 2015



Young Architecture Brigadista

2012 - September 2013

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MOST RELEVANT TRAINING

	Master 2020-2021 - In process	Portugal and Slovenia
	Master en Building Information Modeling	
	August 2020	Conecta Empleo Telefonica
	Nanograde in Construction 4.0	
	June 2020	EDx
	Course: Data Science for Construction, Architecture and Engineering	
	June 2020	Coursera
	Course: Computational Thinking	
	May 2020	IE Exponential Learning
	Course: Data Science, Machine Learning and AI for Bussines	
	April 2020	Coursera
	Course: Learning how to Learn	
	December 2019	Coursera
	Course: Intelligence Tools for the Digital Age	
	February - August 2019	Spain
	Academic research stay	
	Academic Exchange January 2016	
	2013 - October 2019	México
	Bachelor's Degree in Civil Engineering	ID: 11921867

Thesis: Application of BIM methodology in the preservation of existing bridges.

President and Founder of the Aragon Structural Engineering Students Society.
Vice-president of the Students Club of the College of Civil Engineers of Mexico.
Advisor of the representative teams, obtained the Third Place in the Competition of Concrete subjected to impact (UNITEC) April 2015.

Awards won

Third Prediction of Prestressed Joist Failure (ANIVIP) 03/14.
First in Aesthetics. Concrete Frames (ASCE FI Chapter) 09/14.
Second in High Resistance Mix Design. Concrete Mix Design (ASCE UAEMx) 11/14.

Organizer and Coordinator

Cycle of BIM conferences towards construction 4.0.
First Institutional competition of wooden stick bridges FES Aragón.

ARTICLES

BIM Implementation in Organizations | Principal Author **Cimbra** May 2020

Generation of parametric BIM objects for the modeling of the Roman bridge of Alcántara | Co author **Acceptance Rehaben 2020**

Analysis of the integration of occupational risk prevention in the BIM methodology in the European Union | Co-author **OPR 2019**

From Industry 4.0 al PRL 4.0 | Co autor **OPR 2019**

SKILLS AND COMPETENCIES

- Charismatic communication.
- Public speaking.
- Learning to learn.
- Project management.
- Design concepts.
- Building Information Modeling.
- Agile project management.
- Leadership.
- Emotional intelligence.
- Conflict management.
- Body language.
- Teaching.
- Critical thinking.
- Creative thinking.
- BIG Data.
- Machine Learning.
- Visual programing.
- Generative design.
- Marketing.
- Sales.
- Collaboration

LANGUAGES English: Certification TOEIC 750 puntos.

Spanish : Native Language Portuguese : A 1+

USE OF DIGITAL TOOLS

- Microsoft Office. Basic-Intermediate.
- Bexel. Basic.
- MathCAD. Basic.
- Dynamo. Intermediate.
- Revit Structure. Intermediate-Advanced.
- Revit Architecture. Intermediate.
- Revit MEP. Basic-Intermediate.
- AutoCAD. Basic-Intermediate.
- Infravorks. Basic.
- Power Bi. Basic.
- Naviswork Manage. Basic.
- Grasshopper. Basic.
- Tekla Structure. Basic.
- Solibri. Basic
- BIM 360 Design. Basic.
- BIM 360 Docs. Basic.
- Idea Statica. Basic.
- Etabs. Basic-Intermediate.
- SAP 2000. Basic-Intermediate.
- Robot Structural Analysis. Basic-Intermediate.

CERTIFICATIONS



AUTODESK
Certified Professional



RECOGNITIONS



AUTODESK
EXPERT ELITE

Jovenes en la Academia de Ingeniería México

WON COMPETITIONS

- BIM Manager of the BIMYFriend team that won the first place in BIM Competition Infra BIMVA 2019. Promoter City Council of Valladolid, Spain.**
- Acceptance of the program Jóvenes en la Academia de Ingeniería de México. August 2017. Academy of Engineering.**
- Academic achievement in the municipal youth award. August 2017. Municipal Youth Institute of Irapuato.**

TRAINING GIVEN

- 09/06 al 11/16. 60 hr. **Grupo Colinas de Buen, S.A de C.V.**
- 09/16 al 10/16. 30 hr. **Ambher Ingeniería.**
- 09/16 al 11/16. 40 hr. **Ambher Ingeniería.**

COURSES GIVEN

14 Face-to-face format 12 E-Learning format
08 Online format

LECTURES GIVEN

01 Philippines 03 Spain
13 Mexico 11 Online

CONTACT INFORMATION



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MOST RELEVANT INVOLVED PROJECTS

- Auto project translation plugin, Mexico (Work in Progress), Project Lead, Develop of Revit Plugin. Company: GEDCOM. Collaboration with BIM Central.
- Cleaning shared Parameters Toolkit, Nuevo León (2020): Project Designer. Develop of Dynamo-Revit Automation Workflow. Company: GEDCOM. Client: GP Construcciones.
- Automation Slab Points Toolkit, EUA (2020): Project Designer. Develop of Dynamo-Revit Automation Workflow. Company: GEDCOM. Client: Mc Carthy.
- Construred, Nicaragua (2020), Structural Designer, Develop of Structural Design and Structural BIM Model. Company: GEDCOM. Client: Ingenia Concretos.
- MK-BIM Template, EUA (2020), BIM Manager. Company: GEDCOM. Client: M.K. Construction.
- Structural Optimization Wafflecrete, EUA (2020) Structural Designer, Structural Optimization of concrete Company: GEDCOM.. Client: M.K. Construction.
- BIM Library objects Wafflecrete, EUA (2019). BIM Manager, Develop of BIM objects Company: GEDCOM.. Client: M.K. Construction.
- Highway Risk Assessment Automation, Spain (2019), Project Designer, Develop of Dynamo-Revit Automation Workflow. Client: Internal In House Development for AC2.
- Protocol setup for CDE and BIM Object creation, Spain (2019), BIM Manager, Establishment the goals and framework for BIM Implementation, Client: Internal in-house Development for AC2.
- -Parque Tepeyac, Mexico City (2018 under construction): Structural Designer (Construction Documents) and BIM Modeller (Design Development). Commercial Development of + 350,000 m² Company: WSP. Client: Confidential.
- Izazaga 11, Mexico City, Mexico (2018 structural proposal): Structural Designer (Conceptual Design Proposal). Residential and office complex of + 170,000 m² composed of 4 basements and five towers. Company: WSP Client: Confidential.
- PEMBO Project, Manila Philippines (2018 Innovation Project). Implementation of lonely BIM and Automation in house, Project Designer and BIM Manager. Company: Autodesk. Client: Build Change.
- Área Interlomas, Huixquilucan, México (2018): BIM Modeler (Conceptual Design Phase - 50% Construction Documents). Company: WSP ..Client: Confidential
- -Be Grand - Reforma (Lafragua), Mexico City, Mexico (2016-2017): BIM Modeler. It consists of 50 levels of mixed uses. Company: Structural Modelling in the Construction Document Phase. WSP. Client: Confidential
- New Airport of Mexico City, State of Mexico, Mexico (2017): Structural Designer and BIM Modeler. Design of base plates, secondary structures of the arrival area, generation of modifications in the structural BIM model and coordination with disciplines to resolve interferences with structure. Company: Colinas de Buen Group. Client: Confidential
- Conjunto Carso III, Mexico City. (2017). Structural Designer and BIM Modeler. 360,000 m² residential and office space consisting of 7 basements and four superstructure towers. Creation of the pilot of the BIM Model and support the structural design. Company: Colinas de Buen Group. Client: Confidential.
- Cervantes # 250, Mexico City. (2016). Structural Designer. Office complex of + 50,000 m² on 23 levels of superstructure and 8 of the substructure. Design of access ramps, revision and modification of the main and secondary beam system. Company: Colinas de Buen Group. Client: Confidential.
- Middlesex Sex Penitentiary, USA, classified information (2015). +30,000 m² penitentiary centre, Coordination and MEP BIM modelling for As-Built. Company: Rizoma. Client: Classified.
- Residential house, Mexico City (2015). Generation of As-built and remodelling documents from the point cloud. Company: Rizoma. Client: Confidential.
- Alía, Querétaro (2014-2015). 40,000 m² building for offices and homes on 20 superstructure levels and two substructure levels. Support in the Architectural BIM model generation for the output of construction documents and coordination with other disciplines, basic quantification of furniture and finishes. Company: Rizoma. Client: Confidential.
- CASVI, Villahermosa (2014). Multi-purpose complex made up of 4 main buildings. Support in improving the BIM model and generation of Voice and data, Electrical and HVAC specialities. Company: Ideas S.A de C.V. Client: Confidential.
- Bicycles Warehouse (2013) Architectural proposal and Revit model of the proposal to make a bicycle warehouse for INJUVE during the Young architecture brigade stay. Institution: INJUVE. Client: Government of Mexico City.
- Young housing (2012) Teamwork and development of an architectural proposal and Revit model on housing development for young people, as a proposal for rescuing a new property. Institution: INJUVE. Client: Government of Mexico City.