

Miguel A. Soler-Ruiz, MSCE, M.Arch, EIT

M. Architect || M. Civil Engineer || BIM Project Manager || Autodesk Revit Developer



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EU/EFTA National, Swiss resident

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Degrees (2 Majors)

- **MS/ Civil Engineering.** University Alfonso X El Sabio of Madrid, Spain 2010.
- **BS/ Civil Engineering.** Polytechnic University of Valencia, Spain 2009.
- **MS/ Architecture.** Polytechnic University of Valencia, Spain 2007.
- **BS/ Architecture.** Polytechnic University of Valencia, Spain 2004.
- **BS/ Public Works Engineering** (Sp. Civil Constructions) Polytechnic U. of Valencia, Spain 2009.
- Engineer-in-training (EIT) by the State of Connecticut. EIT-0010978, Hartford, CT. 2013.

Awards

- **1st Trabit Prize** for Civil Engineers. Madrid, Spain 2010
- **BASF Construction Chemicals Prize** for Civil Engineers. Valencia, Spain 2009
- **49K Prize** for Entrepreneurs. Valencia, Spain 2011

Special Skills & Publications

- **BIM (Building Information Modeling) Specialist**
 - Lecturer in several conferences (ECOBuild America, Washington D.C., 2011 – Cement League NY, 2011 – U.S. General Services Administration, 2011 – Universidad Europea, 2013, 2014, 2015, 2016 – BIM School, 2014, 2015 – S-BIM Workshops by UEM 2013, 2014, 2015 – BIM Forum Spain, 2016)
 - Professor at New York University (NYU-Poly) 2011, 2012 and Universidad Europea Madrid (UEM) 2013-15
- **Autodesk App Developer (BIM Apps) Specialist**
 - Development of several applications and macros for BIM processes in C# .NET Framework.
 - Published add-ins in the Autodesk Exchange app store and Android Market.
- **Publications**
 - "The Cost of not using BIM". New York, US 2011
 - "Study on road safety campaigns in Spain". Madrid, Spain 2010
 - "The hydraulic retraction of concrete. Calculation and cracking". Valencia, Spain 2009
 - **ZONER® Beta:** New York, US October 2011 to the present. Android™ application for mobile devices.
 - "The American City" 3rd Edition with Alexander Garvin. New York, US 2012

Languages

- **English:** bilingual **Spanish:** bilingual **Russian:** basic Level **German:** basic level

Experience (+9 Years: United States - Spain)

- **Fenwick Iribarren Architects:** Madrid. BIM Project Manager. Architect. October 2013 – **Current** (As full time consultant specialist with Avatar BIM, S.L.)
BIM Project Manager (4 Stadiums – 2022 Qatar World Cup): Qatar Foundation Stadium, 5th Precinct Stadium, 40K Ras Abu Abboud Stadium and 80K Lusail World Cup Final Stadium.
Tasks include project coordination, BIM management, project contracts management, information and team management, Revit API programming, BIM Execution Plan, etc.
- **Avatar BIM, S.L.:** Madrid. BIM Project Manager. Civil Engineer. October 2013 – **Current** (As part time specialist)
BIM Project Manager (2 High-rise projects): 2020T Tower, Dubai, U.A.E. and 5^a Torre (tower) Madrid, Spain.
Tasks include project coordination, BIM management, project contracts management, information and team management, Revit API programming, BIM Execution Plan, etc.

...experience

- **AI Engineers Inc:** New York. Civil Engineer. February 2012 – June 2013.
BROOKLYN BRIDGE Rehabilitation. Duties include the design for the catwalk, Main Street girder supports and temporary plating and shielding of existing structure.

WILLIAMSBURG BRIDGE Rehabilitation. Design for the comfort stations and strut repairs. 34th Street Subway Station - Number 7 Line Extension of New York City Subway – MTA Design for the retaining walls. Virginia Department of Transportation – Bridge Load Rating of several bridges.
- **New York University (NYU-Polytechnic Institute):** New York. Visiting Professor. Year 2011-12.
Civil Engineering Department. BIM Parametric Modeling. Professor of Construction Modeling and Data I and Construction Modeling and Data II. Teaching BIM for Civil Engineers.
- **Structuretech PC:** New York. Civil Engineer, January 2012 - Current.
Knickerbocker and Central Avenue Subway Stations – M Line Renovation of New York City Subway – MTA. Design for the two subway stations mezzanines. Inspection of superstructure and substructure, structural calculations for all the supports, etc. Also, design for the Brooklyn Navy Yard shed temporary supports prior to demolition and renovation of the entire structure.
- **M.Arch Architects:** New York. Project Architect, December 2010 - February 2012.
BIM Manager. Structural Engineer. Building Engineer. Designed residential, commercial and institutional projects. From sketching stages to construction phase. BIM Design. Building Permits. Engineering reports (boring tests, pits, drywells...) Structure calculations. Foundations design. Scheduling. MEP.
- **City Planning Department** of Polytechnic University of Valencia: Valencia, Spain. January 2006 – January 2007.
City planning development, teaching tasks, town planning courses for lawyers, town planning studies.
- **A.M.C. Arquitectura Mediterránea Contemporánea:** Valencia, Spain. Architect. 2007
Designed mainly institutional projects. CAD Design, energy calculations, code adaptation.
- **DRAGADOS Construction:** Alicante, Spain. Civil Engineer. 2007
Technical office for the construction of the Cultural Center of Benidorm designed by Navarro Baldeweg. Developed construction plans, schedules, in-site control, materials control, change orders, measuring, pricing.

Software skills

BIM: Autodesk REVIT 2017 (Autodesk Revit Certified Professional 00360650), Autodesk Navisworks, Bentley AECOSIM Building Designer v8i, .NET Framework Revit API,
CAD: Autodesk AutoCAD 2017, Bentley Microstation v8i, Autodesk 3DS MAX,
Design: Adobe Photoshop, Adobe InDesign
Hydraulic: Epanet
Web: Dreamweaver, Java
Structural: CypeCAD, SAP2000, VIRTIS v3
Traffic – Topographic – Acoustics
Smartphone engineering: JAVA – Android™
Programming languages: C#, VB, Revit API, Navisworks API, .NET Framework