

Ramón Darío Iglesias
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EDUCATION

- 09/2012-06/2014 | STANFORD UNIVERSITY
M.S. in Construction Engineering and Management
- 08/2007-06/2012 | THE UNIVERSITY OF TEXAS AT AUSTIN
B.S. in Civil Engineering

WORK EXPERIENCE

- 07/2014-12/2014 | STANFORD UNIVERSITY, Stanford, CA
Graduate Researcher
Worked together with a contractor and a wind developer to create a method to parametrize construction cost, optimize the turbine and substation layout, and algorithmically find the best schedule. The developed methodology was transformed into a web application for the use of construction practitioners.
- 06/2013-08/2013 | PROJECT FROG, San Francisco, CA
Inventory Control Intern
Coordinated building component deliveries and tracked material inventories for four different school construction sites totaling 17 buildings within a three month schedule.
- 06/2012-08/2012 | STEGER BIZZELL, Georgetown, TX
Water Utility Modeling Intern
Modeled a utility company's water and wastewater infrastructure using ArcGIS to provide asset management, demand forecast, and network optimization.
- 07/2011-08/2011 | CONSORCIO CARLO, Guadalajara, Mexico
Superintendent
Developed the schedule, procured the required materials, managed the on-site operations, and helped prepare permit applications for a small residential project
- 06/2011-07/2011 | GRUPO ATELIER, Guadalajara, Mexico
Cost Estimating Intern
Prepared detailed cost estimates for a range of different house designs of a residential development.

RESEARCH EXPERIENCE

- 10/2013-05/2014 | STANFORD UNIVERSITY
Wind Farm Layout Optimization
Enhanced state of the art layout optimization with methods that take into account detailed costs and construction knowledge. Achieved to parametrically create high performing, buildable turbine layouts.
- 09/2010-05/2011 | THE UNIVERSITY OF TEXAS AT AUSTIN
Life-Cycle Analysis using Building Information Models
Explored the current workflow for life-cycle costing and energy modeling, and how building information modeling could improve the process. Concluded with a case study laying out the difficulty of performing useful life-cycle analysis and how proper BIM implementation can streamline the process.
- 11/2009-07/2010 | TECHNICAL UNIVERSITY MUNICH
High Performance Concrete Adhesives
Tested different concrete adhesive when applied to high performance concrete.

SELECTED PROJECTS

09/2013-04/2014	<p>STANFORD UNIVERSITY</p> <p><i>Industrialized Construction Studio</i></p> <p>Organized, along fellow colleagues, a course investigating the methods, drivers and barriers of industrialized construction and inviting local companies to work with students in relevant projects. The course culminated with in a ten day trip to Sweden where we visited companies and their sites and factories.</p>
11/2013- 12/2013	<p>STANFORD UNIVERSITY</p> <p><i>Learning Algorithm for Optimization</i></p> <p>Developed a Naive Bayes based algorithm to accelerate the optimization of Wind Farm Layouts</p>
03/2011-05/2012	<p>THE UNIVERSITY OF TEXAS AT AUSTIN</p> <p><i>Modular Steel Frame Optimization</i></p> <p>Developed a model that optimized the spatial arrangement and sizing arrangement of a steel frame modular building.</p>
04/2010-08/2010	<p>TECHNICAL UNIVERSITY MUNICH</p> <p><i>Risk Based Flood Protection Optimization</i></p> <p>Optimized a flood protection system by balancing the trade-off between mitigation cost and expected cost of failure under different land use scenarios.</p>

SKILLS

LANGUAGES:	Spanish (native), English (fluent), German (intermediate)
TECHNICAL:	Python, OGR/GDAL, Java, Ruby on Rails, Amazon Web Services, MATLAB, ArcGIS, Revit, Navisworks, Vico, OpenWind, Microsoft Office, Node.js, Javascript, L ^A T _E X