

## ARTURO HERNANDEZ

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### EDUCATION

<i>Northwestern University</i> , Masters in Engineering Management	05/2017
<i>University of Illinois at Chicago</i> , B.S. in Mechanical Engineering	05/2006

### EMPLOYMENT

<b><i>Sr. Business Analyst, Energy Efficiency Planning, ComEd</i></b>	<b><i>04/2015-Present</i></b>
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This function provides the analysis and ongoing market intelligence to support Management for the Energy Efficiency Portfolio in the Commercial and Industrial sectors. Key policy and planning activities include:

- *Program Design*: Develop programs using known best practices from existing programs, emerging programs, and input from key stakeholders.
- *Budget Planning*: Long term planning of programs budgets relative to program metrics and performance.
- *Portfolio Modeling*: Model the energy savings and cost-effectiveness of the programs and the portfolio.
- *Market Analysis*: Conduct various market research exercises associated with energy efficiency which support the information needs associated with the design, implementation and evaluation of the portfolio.

<b><i>Energy Efficiency Engineer, Energy Efficiency Consulting, ComEd</i></b>	<b><i>04/2012-03/2015</i></b>
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Provide technical and analytical expertise in the energy field to support energy programs.

- *Risk Management*: Mitigate financial risks by assessing industry specific technologies and cost effectiveness.
- *Technology Evaluation*: Stay abreast on new energy efficiency and renewable generation technologies.
- *Analytical Skills*: Assess data validity of proposed projects in-line to receive incentive funding from ComEd.
- *Practical Experience*: Conducted over 90 assessments to identify cost savings opportunities for the end users.

<b><i>Project Development Engineer, Ameresco</i></b>	<b><i>01/2010-04/2012</i></b>
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Development of Energy Performance Contract projects for schools, universities, and municipal institutions.

- *Financial*: Developed pro forma and cash flow analysis for power generation and energy efficiency projects.
- *Strategy*: Managed the development of projects by strategizing the best technical and financial solutions to meet our clients' needs.
- *Project Development*: Assessed the project risk potential and cost to ensure financial feasibility for both the client and company.
- *Technical Writing*: Wrote proposals encompassing business and technical writing for over 15 energy projects totaling over \$70 million dollars.

<b><i>Design Mechanical Engineer, Cannon Design</i></b>	<b><i>06/2007-12/2009</i></b>
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Designed building mechanical system for office, school, university, and hospital buildings.

- *Software Simulations*: Generated energy models which simulated building technologies to aid in the design.
- *Engineering Design*: Produced schematics illustrating the system design and system components.
- *Sustainability*: Reviewed and awarded LEED certification to projects as part of the USGBC review team.

<b><i>Mechanical Engineer Associate, LM Consultants</i></b>	<b><i>05/2006-5/2007</i></b>
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Provided engineering services for real estate lenders and investors.

- *Asset Management*: Completed cost analysis and asset replacement reserves for properties that were being acquired.
- *CapEx Planning*: Provided life cycle cost for property capital expenditures schedule for investing company.
- *Due-diligence*: Evaluated the adequacy of the construction documents including conformance to governing codes and current design practices.
- *Construction Planning*: Performed pre-construction cost reviews by analyzing the adequacy of the hard cost budgets.

<b><i>Lead Student Engineer, US DOE Industrial Assessment Center</i></b>	<b><i>08/2004-05/2006</i></b>
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Performed energy assessments for small to medium size industrial facilities.

- *Leadership Experience*: Promoted after one year of employment to oversee and train 13 undergraduate students.
- *Industrial Technology*: Completed 26 industrial energy assessments for multiple industrial processes.
- *Technical Writing*: Wrote 47 energy efficient technical recommendations which involved a thorough examination of potential savings from: Energy efficiency improvements, waste minimization and pollution prevention, and productivity improvements.
- *Savings Identified*: Over \$4.5 million in cost savings with an implementation rate of 59%.