

Manuel Angel Hakim

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Education

Dual Degree Program

Washington University St. Louis, MO Graduation Expected: May, 2015

B.S. Chemical Engineering G.P.A: 3.20

Hiram College Hiram, OH Graduation Expected: May, 2015

B.A. Chemistry G.P.A: 3.87

Employment

Project Manager Intern *Mexichem Integral Solutions, Mexico* May 2014 - August 2014

Department of Synergies and Operational Efficiencies

- Developed a protocol for optimization and standardization of PVC tube formulations for all chemical plants in Mexico.
- Reduced scrap by 20% on sewer pipe formula and optimized formulation to yield savings on costs for 1Million pesos per year.
- Quantification of profit from PVC tube production from costs spent on formulations.
- Developed strong connections with suppliers to improve formulas and reduce costs of raw materials.

Chemical Engineer Intern *GRISI SA de CV, Mexico* June 2011 - August 2011

Department of Products and Raw Materials Analysis and Testing

Department of Research and Development

- Acquired skills needed to sample, separate, and identify compounds.
- Understood and investigated industrial plant production processes for cosmetics and personal care products.
- Developed innovative personal care products and helped design and test new formulas.
- Translated scientific documentation from Spanish to English.

Research Assistant *Universidad Iberoamericana, Mexico* June 2012 - August 2012

Bioengineering Research Lab

- Developed a project to obtain ethanol and bio-plastics out of aliment wastes generated by food plant.
- Assisted with data collection and analysis of results.
- Increased efficiency of enzymatic hydrolysis by 15%.

Technical Skills

- Proficiency in Excel, Maple and Matlab to analyze data and solve engineering problems.
- Experience with Aspen HYSYS and DeltaV DCS.
- Experience in developing cash flows, income statement and balance sheet, sensitivity analysis and decision tools in Excel.
- Experience with SAP systems, Java programming language, Adobe Photoshop and Illustrator.
- Bilingual: English and Spanish.

Additional Information

Extracurricular Activities

Regional Leader, St. Louis *Mexican Talent Network: Kansas Chapter* December 2013 - Present

- Promote the exchange of knowledge to encourage and support the growth of Mexican companies in Kansas and Missouri and impulse Hispanic Entrepreneurship in the USA.
- Developed a symposium and networking event to expand the potential of Hispanic students in the American workforce.

Watershed Project Coordinator *Engineers without Borders: Ethiopia* January 2014 - Present

- Developed watershed analysis to evaluate the stability of a natural bridge in the area of Mekele.
- Led our team to develop a project for the construction of a supporting structure for the bridge in the School of the Blind in Mekele.
- Developed and organized fundraisers.

Community Service

Project Leader *Nutre a un niño* August 2007 - June 2014

- Developed and created a filter for water purification made from raw materials available on site.
- Participated in the production, organization and distribution of food plans for poor communities in Guerrero.

Member *Edifik* August 2009 - June 2010

- Participated in a social program at Honduras to support indigent communities by reconstructing their houses and improving their water distribution system.
- Helped develop several fundraisers for indigent communities around Mexico.

Campus Involvement

NCAA Soccer Player, Hiram College DIII Team August 2010 - May 2013

NCAA Soccer Player, Washington University DIII Team August 2013 - May 2014

President, Spanish Club *Hiram College* August 2011 - May 2012

- Organized and developed cultural events to share the Hispanic culture.
- Had community service events like helping middle school students to learn Spanish.

President, Intercultural Forum *Hiram College* May 2012 - May 2013

- Organized and developed events to share the different cultures present on campus.
- Created a Welcome Program to support new international students and introduce them to the American Culture.
- Organized several trips to tour cities around the USA.