

Joseph Yu Zhang E.I.T.

• 1031 Castlerock Dr., Ft Collins, CO, 80521 • (425)343-2904 • zyyaoming@gmail.com

Education

Colorado State University, Ft Collins, CO

Master of Science in *Environmental Engineering*

Aug 2011-Aug 2014

GPA: 3.8/4.0

Henan Agricultural University, China

Bachelor of Agriculture in *Agricultural Resources and Environment*

Sep 2007-Jun 2011

GPA: 3.5/4.0

Bachelor of Arts in *Business English*

GPA: 3.0/4.0

Engineering Experience

Agricultural Environmental Engineer in RiskWise Global Capital Group, Denver, CO

Effective Agriculture Grow Project without Risk

Sep 2013-Mar 2014

- Engineered water supply system giving groundwater availability to meet crop demand
- Analyzed the quality of soil and impact of fertilizer on soil and groundwater
- Conducted Demand and Supply Models to design the growing plan on 10,000 acres of contracted land under 80% of budget

Graduate Research Assistant at Colorado State University, Ft Collins, CO

Siloxane Analysis by GC/MS from Activated Sludge, Wastewater and River Water

Nov 2012-Aug 2014

- Collected and prepared sludge and water samples to achieve accurate analysis
- Developed calibration curves matrix according to analyte concentrations
- Effectively used Gas Chromatography/Mass Spectrometry to analyze trace chemicals
- Analyzed Total Solids and analyte concentrations trends over 6 months

Selected Engineering Projects

International Aide Water Project about Reduction of Disinfection Byproducts

Sep 2012-Dec 2012

- Successfully developed risk matrix, Multi-Criteria Decision Analysis and cost analysis to improve better design of drinking-water pipeline for La Criba in El Salvador

Groundwater Availability Preliminary Study by ArcGIS

Sep 2012-Dec 2012

- Conducted groundwater volume and population access, calculation, analysis and evaluation by ArcGIS in the areas of Denver County and Jefferson County
- Gained firsthand experience with map drawing and exporting by using ArcGIS
- Computed Demand and Supply analysis to estimate time to deplete groundwater

In-Situ Leaching Uranium Mining Process Analysis

Feb 2012-May 2012

- Analyzed and compared In-situ Leaching mining and conventional mining processes
- Estimated and calculated processes costs and profit by using Microsoft Excel

Water Pollution of San-Men-Gorge Wetland, Sanmenxia, China

Jul 2009-Mar 2010

- Precisely prepared and collated chemical solutions for water quality testing
- Collected, transported and prepared water samples for pollutant testing
- Measured DO, COD, pH, Turbidity to assess water quality

Other Work Experience

• Graduate Teaching Assistant, College of Engineering at CSU

Oct 2012-Dec 2013

• Volunteer, Natural Gas Symposium, Fort Collins, CO

Oct 2012

• Customer Service Representative, CSU Bookstore, Fort Collins, CO

Aug 2012-Feb 2013

• Fertilizer Seller, Henan Academy of Agricultural Sciences, China

Oct 2010

• Voluntary Teacher, Summer Vacation Society Activity Program, China

Jul 2008; Jul 2009

Leadership & Professional Membership

• Activity committee, Environmental Engineering Society

Sep 2013-Present

• Member, Society of Asian Scientists and Engineers, CSU chapter

Sep 2013-Present

• Member, Engineers Without Borders, CSU chapter

Sep 2013-Present

• Member, American Water Works Association/Water Environment Association

Sep 2013-Present