

# AIMEE TU

E.I.T.

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## EDUCATION

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### THE UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

*M.S. in Environmental Engineering, May 2012*

GPA 4.00/4.00

Thesis: *Optimizing a Hybrid Reverse Osmosis/Electrodialysis System to Concentrate Natural Organic Matter from Treated Drinking Water*

### THE PENNSYLVANIA STATE UNIVERSITY, The Schreyer Honors College

*B.S. in Engineering Science, May 2010*

GPA 3.96/4.00

*B.S. in Chemical Engineering, May 2010*

## EXPERIENCE

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### NAVSEA – Naval Surface Warfare Center Port Hueneme Division, Intern

Aug 2012-Present

- Performed audits, inspections, and developed metrics for hazardous material/waste compliance, pollution prevention, and environmental management system conformance

### Engineering Ministries International - ELWA Hospital Project

May 2012-Aug 2012

#### *Environmental Engineering Intern*

- Worked with PE to design drinking water distribution system by calculating water demand, testing initial water quality, updating plans in AutoCAD, and writing the report

### Department of Civil and Environmental Engineering, University of Illinois

Aug 2010-May 2012

#### *Graduate Research Assistant*

- Designed and built a bench-scale hybrid electrodialysis and reverse osmosis system
- Conducted experiments, used techniques such as ion chromatography, size exclusion chromatography, and spectrofluorometry to analyze results, and presented data on weekly progress
- Worked independently as well as with technicians, researchers, managers, and classmates

### Undergraduate Research at Penn State

Fall 2008-Spring 2010

Honors Thesis: *Water Adsorption and Characterization on Alkanethiol Self-assembled Monolayers on Gold*

- Conducted experiments using PM-RAIRS and QCM, analyzed data, and found meaningful results
- Presented work at 2009 AIChE Annual Meeting (Interfacial Phenomena poster session)
- Manuscript entitled “Water Adsorption Isotherms on CH<sub>3</sub>, OH, and COOH-terminated Organic Surfaces at Ambient Conditions Measured with PM-RAIRS” accepted by *Langmuir* in Oct 2012

## COMPUTER SKILLS

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AutoCAD	Word	Excel	Powerpoint	Frontpage
Matlab	Solidworks	PSpice	HYSYS	BioWin

## LEADERSHIP

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Vice President, Retreat Head, Small Group Leader – Asian American Christian Fellowship

2006-2010

- Planned and coordinated events, led spiritual discussions, and mentored college students

Facilitator, Member – Women in Engineering Program

2006-2007

- Facilitated study groups in linear algebra and explained difficult concepts

## AWARDS / HONORS

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Abbot Fellowship – University of Illinois at Urbana-Champaign

Fall 2010-Spring 2011

Larry Duda Undergraduate Student Research Award – Penn State Chemical Engineering

Spring 2009

Paul Morrow Endowed Scholarship – Penn State College of Engineering

Fall 2006-Spring 2010

Academic Excellence Scholarship – Schreyer Honors College

Fall 2006-Spring 2010

National Merit Scholarship Corporation – Finalist

2005