**Luke Smith**

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**EDUCATION:**

Texas A&M University- College Station, TX

Expected Graduation Date: December 2014

Major: Chemical Engineering

Cumulative GPA: 3.24

**WORK EXPERIENCE:**

Valero Energy Corporation

*Process Engineering Intern; June-August 2013*

* Sized chiller system for FCC primary absorber
* Created excel tool to predict skin temperature of incinerator stack
* Co-led test run of depentanizer to gain data for upcoming capital project
* Learned Aspen HYSYS and developed original simulations for small projects
* Applied sizing criteria to existing fuel gas coalescers to diagnose boiler fouling problem
* Learned process flows and basic controls of crude unit, FCC, alkylation, ULSD
* Performed effectiveness calculations on heat exchangers in Alky unit
* Developed project proposal for plant-wide EIV installations
* Participated in intern-led service event at Houston food bank

Cargill, Inc.

*Engineering Co-op; May-December 2012*

* Developed and completed project to construct new scrap oil removal process
* Developed and proposed project to install trim cooler in hydrogenation plant
* Spent three days as acting maintenance supervisor over entire plant
* Installed sulfuric acid metering pump and rerouted piping in wastewater area
* Participated in Habitat for Humanity project with other plant employees

**UNIVERSITY ACTIVITIES:**

Chemical Engineering Study Abroad; *Tianjin, China May-June 2013*

* Took Process Safety, Bioreactors courses from A&M professors
* Homework groups included two A&M students and two Tianjin University students

Aggie Challenge; *Team Member 2013-Present*

* Developing technology for portable PCR diagnostic device
* Designing and simulating heating unit for device

Grace Bible Church; *Bible study leader 2011-Present*

* Coordinating volunteer and ministry events as Evangelism Team co-leader
* Led semester-long weekly bible study for college men’s group

Impact Retreat; *Counselor 2011*

* Led group of freshmen in A&M’s Christian new student orientation retreat
* Mentor to freshmen during their first semester at A&M

Aggie Fish Club; *Member 2010-2011*

* Participated in service events: Relay For Life, Big Event, Project Fish, Gateway
* Organized events for Parents’ Weekend, Fall Retreat, weekly meetings

Camp Adventure; *Counselor 2011*

* Led one hundred local children in outdoor camp with fifteen counselors

**AWARDS:**

Mays Business School Ideas Challenge 3rd Place; 2011

* Developed cell phone case stun gun for invention competition

Occidental Chemical JD Lindsay Scholarship Recipient; *2010-Present*

Liberty Christian High School Valedictorian; *Class of 2010*