

Jeremy Castagno

Memphis, TN

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<http://jeremybyu.github.io/aboutme/>

(385) 204-6580

Education

Major: Chemical Engineering, GPA: 3.76
Minors: Computer Science, Mathematics

Brigham Young University – Provo, Utah
Graduation Date: April 2013

Work Experience

Process Control Engineer, Valero Energy, Memphis, TN

5/13-10/15

- ♦ Control systems support for operation of multiple process units in refinery.
- ♦ Reviewed and verified several safety systems through simulation and creation of detailed test plans.
- ♦ Assisted design and implementation of gasoline blending control system upgrade. Incorporated advanced process control with an estimated savings of 2 MM/yr.
- ♦ Increased reliability of H₂ Processing Plant with a savings of 400K/yr. by identifying and replacing faulty instrumentation.

PRISM Research Group, BYU College of Engineering, Provo, UT

8/12-4/13

- ♦ Co-author of a paper published in ITAE demonstrating the feasibility of real time moving horizon parameter estimation and the tradeoffs between model complexity and model accuracy.
- ♦ Developed and implemented real-time mixed integer non-linear control of a laboratory benchmark system utilizing Matlab and a custom built C++ interface.

Economics & Process Optimization Intern, Valero Headquarters, San Antonio, TX

5/12-8/12

- ♦ Performed a thorough engineering statistical analysis of corporate gasoline blend models.
- ♦ Analyzed large datasets and presented findings to executive leadership in easy to understand format.
- ♦ Identified weaknesses and implemented improvements resulting in a 50% increase in accuracy of the T50 w/ethanol model.

Volunteer Experience

Volunteer Tutor, Memphis, TN

10/13/-Present

- ♦ Assisted several students in their educational pursuits; high school/college math & chemistry

Study Abroad for “Engineers without Borders”, Cusco, Peru

4/12-5/12

- ♦ Organized a multi-discipline engineering team creating low cost water filters.
- ♦ Designed, created, and distributed multiple engineering projects in rural villages.

Representative for The Church of Jesus Christ of Latter-day Saints, India

7/08-7/10

- ♦ Taught and directed English classes of size 25+ and adapted lesson plans.
- ♦ Lived a service oriented life for two years assisting the community.

Skills

Programming Languages:

C, C++, Python, Java, C#, VBA, SQL, JavaScript

OS/Software Proficiency:

Linux Servers, Windows Servers, Microsoft Office