

Chandler G. Crusan

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Objective

- I am seeking a career where I can use my experience and education to help my employer meet and surpass their goals

Education**Yale University, New Haven, CT**

- Bachelor of Science in Chemical Engineering (ABET-accredited), expected May 2017; GPA: 3.33/4.0
- Representative Coursework: Chemical Engineering and Process Modeling, Physical Chemistry and Lab, Fluid Mechanics, Differential Equations, Organic Chemistry, Physics, Thermodynamics, Computing for Engineers, Transport Phenomena, Chemical Kinetics and Reactors, Process Control, Separation & Purification Processes

Hempfield Area High School, Greensburg, PA

- Class rank 23 of 504, graduated June 2013
- 3 sport athlete, track and field (four year letterman), football, cross country
- National Honor Society (NHS), Mathletes, HEP (Hempfield Enrichment Program), Student Council

Relevant Experience and Leadership**Yale Chemical & Environmental Engineering, Undergraduate Researcher: August 2014 – July 2015**

- Member of Abbas Firoozabadi Lab Group (sponsored by Chevron)
- Constructed a pipe system to measure dispersant effects on the precipitation of asphaltenes in petroleum
- Measured effectiveness of surfactants in crude oil to prevent clogs in pipes caused by asphaltene precipitation
- Produced reproducible data for effectiveness of two surfactants at various concentrations
- Conducted vial studies to measure the rate of asphaltene precipitation in an oil-heptane mixture
- Lead research in pipe flow experiment for two semesters and presented data at weekly lab group meetings
- Collected pressure and concentration data 15 hours per week, with guidance from post-doctorates
- Assisted in coordinating hazardous waste pickups and maintaining lab safety protocols

Yale Chemical & Environmental Engineering, Summer Researcher: Summer 2015

- Collaborated with two post-doctorates on various experiments
- Examined the contact angle of oil droplets submerged in deionized water at varying pH, on several substrates used to imitate the walls of oil reservoirs.
- Produced reproducible data on which pH levels are most favorable for Enhanced Oil Recovery
- Collected contact angle data 30 hours a week
- Organized PowerPoint presentations on data collected for experiments
- Assisted a post-doctorate with vial/aluminum cup studies on oil emulsion behavior with deionized water/brine

Yale Society of Petroleum Engineers (SPE), Executive Board: Fall 2014 – Present

- Vice-President and Treasurer Fall 2015-Present
- Organize plant tours, trips to national conferences, and monthly meetings between members
- Manage budgets for catering events and transportation to conferences
- Member of Society of Petroleum Engineers International

Yale Athletics Kipthuth Leadership Academy: Spring 2015 – Fall 2016

- Develops student athletes into world-class leaders in athletics, academics, and life
- Participated in lecture series that invites guest lecturers

Additional Experience**Yale Varsity Track and Field: Fall 2013 – Present**

- Three-year Varsity Letterman, 400-meter dash
- Compete in indoor and outdoor track seasons, practice and weight lifting 20 hours per week

Chick-fil-A: May 2011- May 2013

- Served customers, helped maintain restaurant cleanliness, cooked food, and prepared meals
- Worked as part of a team to maintain high expectations of customer service

Hempfield Area School District: Summer 2014, 2015

- Worked as a member of the maintenance team maintaining athletic fields and repairing district buildings
- 40 hours a week

Community Service:

- Annual high school blood drive (2011-2013)
- NHS activities (annual community fair, holiday bell ringing with Salvation Army, tutoring)

Skills

Computer: Microsoft Office including Excel, Word, and PowerPoint, MATLAB, C, Aspen Plus

Foreign Languages: Proficient in Spanish