

## **Eric Beitle**

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Fayetteville, AR 72704

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### **EDUCATION**

#### **Bachelor of Science in Chemical Engineering**

GPA: 3.5 (overall) 3.7 (engineering)

University of Arkansas, Fayetteville, AR  
May 2019

#### **Fayetteville High School, Fayetteville, AR**

GPA: 3.96 (graduated with high honors)

May 2014

### **WORK EXPERIENCE**

#### **LyondellBasell Polymer Process Engineering Intern**

Spring 2018

##### **Bayport Site, Webster, Texas**

Design responsibilities included rewriting controls to a unit flare, remedying steam flow issues, updating and creating P&ID sections, and improving current flare controls. Process engineering responsibilities included taking temperature and pressure readings on polymer lines, collecting empirical data on a flare unit, collecting condition data on steam traps, monitoring steam and condensate lines, and assisting polymer line engineers. Signature project on flare upgrade provided savings of \$34,000/y on demonstration unit and decreased potential of Title V deviations.

#### **Cross Oil Refinery Process Engineering Intern**

Fall 2016 – Spring 2017

##### **Cross Oil, Smackover AR**

Engineering team of four engineers and two interns provide support for day to day refinery operations. Design responsibilities included calculating flow diagrams, sizing heat exchangers, sizing PSVs, reading P&IDs, talking to vendors, and data entry and analysis. Process engineering responsibilities included taking reformer tube surveys, vacuum and atmospheric tower surveys, heat exchanger and crude train temperature and pressure surveys, looking for leaks, inspecting tower trays during turnaround, and assisting in catalyst loading during turnaround. Experienced two turnarounds, one planned and one emergency.

#### **Research Assistant, Chemical Engineering**

Fall 2017

##### **University of Arkansas, Fayetteville AR**

Assisted with chemical synthesis and characterization of peptoid-based coating materials and bicelles. Skills acquired included transmission electron microscopy and design of experiments. Supervisor: Dr. S. Servoss

#### **Internship, Biological Engineering**

April 2015 – Fall 2016

##### **University of Arkansas, Fayetteville AR**

Examined feasibility of hydrogen, solar, and biomass derived power for use at the university. Completed several literature surveys, and wrote an analysis on the viability of solar power use at the Sustainability House. Co-wrote an analysis of the university food waste report calculation, and hydrogen power bus grant.

#### **Research Assistant, Biological Engineering**

June 2014 – April 2015

##### **University of Arkansas, Fayetteville AR**

Responsibilities included design, construction, and instrumentation of an anaerobic, side loading digester employing methane-producing archaea. Completed literature survey and wrote part of an analysis report on life cycle assessments of poultry and cow production. Supervisor: Dr. M. Matlock.

### **VOLUNTEER ACTIVITIES**

#### **Student Volunteer – Cultural Exchange**

International Students and Scholars, University of Arkansas

2012 – present

#### **Certified Search and Rescue Technician (SARTECH II) and in Basic Life Support CPR/AED**

Washington County Search and Rescue Team Member

2015 – present

### **COMPUTER SKILLS**

Microsoft Office (Word, Excel, Access and PowerPoint), MATLAB (technical computing), LabView (data acquisition software), PI Process Book (DCS Software), DesignSpark (3D modeling / printing)

### **AWARDS**

- Recipient of the Roads Alumni Scholarship, Nancy Nickerson Miller Scholarship
- Recipient of the Arkansas Challenge Scholarship and the Chancellor's Scholarship