

## CHEMICAL ENGINEERING INTERN

### Objective Statement

To obtain employment as an entry level Chemical Engineer utilizing my current experience and education.

### Competencies

- Project management
- Scheduling tools
- ChemCad, OAM, MES and EPI
- Structural red-line revisions skills
- Advanced written and conversational German
- Process piping
- Microsoft Office
- Quality control
- Strong presentation skills
- Process improvement

### Experience

05/2017 to Current

Chemical Engineering Intern Company Name 1/4 City , State

Intern at AkzoNobel, assigned to the Columbus, Mississippi plant working 30-40 hours weekly in the Hydrogen Peroxide division. Primary duties include observation of the different processes (hydrogenation, oxidation, extraction, distillation, mixing, and loading of peroxide and its components). Updating the OAM, MES, and OEE portals daily with information from the chief technician. Gathering quotes and product specifications for my two assigned projects, red-lining P&IDs in preparation for changes within the plant, and assisting with any jobs that my supervisor needs done. Lead any Management of Change meeting regarding my projects. Projects are as follows: -Replacing an automatic valve with a control valve on a condensate tank; adding a differential pressure transmitter to control the tank level; installing an orifice plate in the pipe to control the flow into the tank. Responsibilities included obtaining bids for mechanical labor, electrical and instrumentation labor, and DCS configuration and quotes for instrumentation. The scope of the project was \$50,000. - Installing an RF Capacitance probe on an existing sight glass on a holding tank; replacing a chemical hose with a 316L stainless steel pipe and installing a control valve in the pipe to control the interface level within the sight glass. Responsibilities included obtaining bids for mechanical labor, electrical and instrumentation labor, and DCS configuration and quotes for instrumentation. The anticipated scope of this project is \$30,000-\$50,000.

07/2016 to 08/2016

Chemical Engineering Summer School (ChESS Vienna) Company Name 1/4 City , State

- The focus of the Chemical Engineering Summer school course, ChESS Vienna, was on practical exploration of unit operations of process engineering in lab scale and touring various chemical processing facilities in Vienna. Additional goals included developing improved teamwork, presentation, laboratory skills, as well as expanding the student's world view, providing an enriching educational experience, and improving the global awareness of our students, and enabling them to be more effective in international settings.

### Organizations

Member- American Institute of Chemical Engineers

Brother of Alpha Kappa Psi - Professional Business Fraternity

UA College of Engineering- Peer Mentor

### Technical Skills and Qualifications

- Monitor and analyze data from processes and experiments.
- Follow safety procedures to be employed by workers operating equipment or working in close proximity to ongoing chemical reactions.
- Improve processes to separate components of liquids or gases or generate electrical currents, using controlled chemical processes.
- Troubleshoot problems with chemical manufacturing processes.
- Evaluate chemical equipment and processes to identify ways to optimize performance or to ensure compliance with safety and environmental regulations.
- Research engineering aspects of biological or chemical processes.
- Conduct validation tests of equipment or processes.
- Determine causes of operational problems or failures.
- Evaluate characteristics of equipment or systems.
- Proficient in Microsoft Office, OAM, MES, and EPI.
- Working knowledge of SAP, ChemCad, C+, Java.
- Advanced written and conversational German.
- Intermediate conversational Spanish.

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Education

2018

Bachelor of Science : Chemical Engineering University of Alabama i¼ City , State , USA

Currently enrolled senior at the University of Alabama majoring in Chemical Engineering

Anticipated graduation date: May 2018

2013

High School Diploma : International Baccalaureate Program Fairhope High School i¼ City , State , USA Graduated May 2013 with IB Diploma.