



CHUKWUDI ONYEJEGBU
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OBJECTIVE

A very dedicated and hardworking junior chemical engineer seeking an internship or a co-op position to assist as an active intern and employee, and also to work with other team members to achieve a goal by increasing the advancement and growth of the company with effective satisfaction.

EDUCATION

Prairie View A & M University *Prairie View, TX*

Bachelor of Science in Chemical Engineering

Cumulative GPA:

Major GPA:

Graduation Date: **December 2018**

3.39/4.00

4.00/4.00

WORK EXPERIENCE

Summer Research Intern, Research Experience for Undergraduates (REU) Program *Intern* **Prairie View A&M University, Prairie View, TX (6/2016 - 8/2016)**

- ☒ Performed computational and experimental tasks with the guidance of my mentor on a specified research project.
- ☒ Worked on scientific and experimental research in workshops, and also performed oral presentation, and a poster presentation at the end of the program.

Research Assistant, Department of Chemistry

Team Leader *Prairie View A&M University Prairie View, TX (1/2016 - Present)*

Research Study; Investigating the Binding mode of Amino Acids on the Graphene Surfaces

- ☒ As the leader, I performed computational tasks with Linux, gaussian view, VASP and python in the atomic modeling of amino acids and graphene.
- ☒ Investigated the binding mode and binding energy of the amino acid with graphene, to obtain the absorbance relationship between the graphene and the amino acid. Learning more about graphene and how it's been used in modern day technologies.
- ☒ Presented the research project by performing an oral and poster presentation to the Air Force Research Laboratory (AFRL) Minority Leaders (ML) Research Collaboration Program (RCP) review board.

RELEVANT COURSEWORK

Material & Energy Balances • Materials Science • Thermodynamics • Differential Equations • Calculus • Organic Chemistry • Physics • Chemistry

RELATIVE PROJECTS

Design of a Water Sprinkler System *Prairie View A&M, TX*

Team Coordinator

Nov 2016

In this project, the main focus was to design a water sprinkler system to basically inspire engineers to think of efficient methods and problem solving of a specific system. The water system was designed to water a full garden of crops consisting of corn, peppers, tomatoes, peas and spinach all rooted in loamy soil. The crops should respond profusely to the economic system and produce rapidly for a sure production of produce. Here is how I contributed to the team;

- ☒ Performed calculations based on the governing equations from the irrigation piping system.
- ☒ Generated a theoretical basis based on the parameters gotten from the sprinkler head coverage layout, and the proposed garden design irrigation system.

Production of Caustic Soda *Prairie View A&M, TX*

Team Leader

Nov 2014

In this project, the main focus was to understand the chemical information, properties and process of producing caustic soda. We were paired in groups of fours, and as the leader of my group, I was able to work with each group member in order to generate both the block flow, and process flow diagram designs for the production process of caustic soda. How I contributed to the team;

- ☒ Researched on the production process of caustic soda.
- ☒ Generated both the block flow and process flow diagrams with the help of my teammates.
- ☒ Presented our project with my group to the audience by performing an oral presentation.

TECHNICAL SKILLS

Matlab • C++ • Microsoft Excel • Linux • Gaussian View G09 • VASP • Python

HONORS AND SCHOLARSHIPS

- ☒ 2nd Place Winner of the Texas A&M University 13th annual Pathways Student Research Symposium under Physical Sciences. **2016**
- ☒ Awarded the Chevron Scholarship for the 2016/2017 academic school year. **2016**
- ☒ 1st Place Winner of the PVAMU 2015/2016 Undergraduate Research Symposium – iRISE-UP for the chemistry department. **2015**
- ☒ Awarded a certificate for the Research Experience for Undergraduates (REU) program for 2015/2016. **2015**
- ☒ Dean's List Honorary Recognition for excellence for the 2015/2016 academic school year. **2015**
- ☒ Awarded General Undergraduate Scholarship for summer 2015. **2015**
- ☒ Honorary Recognition for excellence for the 2014/2015 academic school year. **2014**
- ☒ Winner of the 2009-2010 chess competition games for the Nigerian Senior High Schools academic season Competition League. **2010**

MEMBERSHIPS

- ☒ Research team for the Chemistry Department of PVAMU **Leader**
- ☒ Chemistry Club of Prairie View A&M University **Treasurer**
- ☒ American Institute Of Chemical Engineers (AIChE) **Member**
- ☒ The National Society Of Collegiate Scholars (NSCS) **Member**
- ☒ National Society of Black Engineers (NSBE) **Member**
- ☒ Society Of Petroleum Engineers (SPE) **Member**
- ☒ INROADS **Member**