Tampa, Florida
Web:link

CHUKWUBUIKEM UME-UGWA

(813) 352-7214
Cume93@outlook.com

EMPLOYMENT

	Institute for Computational Engineering and	
Software Engineer, Intern	Sciences, U-Texas	**Summer 2017**

Phase Field Modeling
- Created a parameter search algorithm for obtaining feasible simulation parameters.
- Created a parallel algorithm for data visualization and processing.

Undergraduate Research	**University of South Florida**	**Summer 2016 – Spring 2017**

- Optimized a MATLAB data collection program to enable faster data acquisition and reduced modeling time.
- Modeled rats' contrast sensitivity to characterize the effectiveness of glaucoma therapeutics.

EDUCATION

Tampa, FL	**University of South Florida**	**Fall 2014 – Dec 2017**

- B.S. in Chemical Engineering, Dec 2017. GPA: 3.75.

- Undergraduate Coursework: Transport phenomena; Separations; Controls; Material and Energy balance; Programming Concepts; Instrument systems, Numerical methods.

TECHNICAL EXPERIENCE

Projects

- **Carpool Friends** (May 2017 – present) A social networking application for managing carpools.

- **Control System for an Industrial Digester** (April – May 2017). A feedback and feed-forward control system designed to keep an industrial digester within environmental constraints.

- **MyCarFinder** (May 2016 – Dec 2016) This application makes parking less of a hassle by saving parking location and routing to the location.

- **Self-Heating natural bug repellent system** (Feb – April 2017).
   A repellent dispersion system that uses an exothermic reaction to aid diffusion.

- **Chemical Vapor Deposition reactor design** (Oct – Dec 2016) A chemical vapor deposition that has a yield of 75%.

- **Report analyzer** (Dec 2016 – Feb 2017) An application that reduces the amount of time it takes to grade a lab report by doing a word count analysis on various report sections. C#;

- **Trading Journal** (Sep 2014 – June 2015) A documentation app that enables the user whom is assumed to be a financial market speculator to document his/her daily transactions.

ADDITIONAL EXPERIENCE AND AWARDS

- **Outstanding product design, Senior Design Projects:** Awarded outstanding product design for Self-Heating natural bug repellent system.

AFFILIATIONS

- **Tau Beta PI Engineering Honor Society**
- **American Institute of Chemical Engineers**
   Institute of Electronic and Electrical Engineers

Languages and Technologies

- C++(basic knowledge); C(proficient); Python(proficient);Java(proficient); C#.NET(proficient);MATLAB(proficient).
- Visual Studio; Microsoft Office; Eclipse; Android Studio; Photoshop; AutoDesk Inventor; SIMULINK; Aspen Plus; Comsol Multiphysics;