

Tampa, Florida  
Web:[link](#)

# CHUKWUBUIKEM UME-UGWA

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## EMPLOYMENT

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<b>Software Engineer, Intern</b>	<b>Institute for Computational Engineering and Sciences, U-Texas</b>	<b>Summer 2017</b>
Phase Field Modeling		
<ul style="list-style-type: none"><li>• Created a parameter search algorithm for obtaining feasible simulation parameters.</li><li>• Created a parallel algorithm for data visualization and processing.</li></ul>		

<b>Undergraduate Research</b>	<b>University of South Florida</b>	<b>Summer 2016 – Spring 2017</b>
<ul style="list-style-type: none"><li>• Optimized a MATLAB data collection program to enable faster data acquisition and reduced modeling time.</li><li>• Modeled rats' contrast sensitivity to characterize the effectiveness of glaucoma therapeutics.</li></ul>		

## EDUCATION

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<b>Tampa, FL</b>	<b>University of South Florida</b>	<b>Fall 2014 – Dec 2017</b>
<ul style="list-style-type: none"><li>• B.S. in Chemical Engineering, Dec 2017. GPA: 3.75.</li><li>• Undergraduate Coursework: Transport phenomena; Separations; Controls; Material and Energy balance; Programming Concepts; Instrument systems, Numerical methods.</li></ul>		

## TECHNICAL EXPERIENCE

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### 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 – present) 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 theoretical 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.
- **Trading Journal** (Sep 2014 – present) 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

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

## AFFILIATIONS

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

## Languages and Technologies

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- C++(intermediate); C(proficient); Python(proficient);Java(proficient); C#.NET(proficient);MATLAB(proficient); front-end web technologies(intermediate).
- Visual Studio; Microsoft Office; Eclipse; Android Studio; Photoshop; AutoDesk Inventor; SIMULINK; Aspen Plus; Comsol Multiphysics;