

Chukwubuikem Ume-Ugwa

City: Tampa, FL | Phone: (813)-352-7214 | Email: cume93@outlook.com | Web: <https://cleverchuk.github.io/>

Experience

Summer Intern	ICES, University of Texas, Austin, TX.	Jun 2017- Aug '17
----------------------	---	-------------------

Computational Simulation and Visualization of Nanoparticle Sintering

- Used the first principles to develop a parameter search algorithm for obtaining feasible simulation parameters in C/C++.
- Developed a parallel algorithm for data processing and visualization in Python

Undergraduate Research	University of South Florida, Tampa FL.	Jun 2016 – Jan '17
-------------------------------	---	--------------------

Glaucoma Treatment

- 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

Bachelor of Science in Chemical Engineering	University of South Florida, Tampa FL.	Aug 2014 – Dec '17
---	---	--------------------

Overall GPA: 3.75; Major GPA: 3.67

Technical Experience

Projects:

- **Carpool Friends:** A social networking application for managing carpools. May 2017 – present
- **Control System for industrial Digester:** A feedback and feedforward control system designed to keep an industrial digester within environmental specification. Apr 2017 – May '17
- **My Car Finder:** An application that makes finding your car less of a hassle by saving parking location and routing to the location. May 2016 – present
- **Self-Heating natural bug repellent system:** A repellent dispersion system that uses exothermic reaction to aid dispersion of repellent. Feb 2017- April '17
- **Chemical Vapor Deposition reactor design:** A vapor deposition reactor that has a theoretical yield of 75% Oct 2016 – Dec '16
- **Report Analyzer:** An application that reduces the amount of time it takes to grade a lab report by doing a word count analysis on report sections. Dec 2016 - Feb '17
- **Trading Journal:** A trade documentation application. Sep 2014 – present

Awards and Honors

Outstanding Product Design Award

Department of Chemical and Biomedical Engineering
University of South Florida.

Professional Association

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

Notable Technical Skills

Programming Languages:

- **Basic** Proficiency: SQL
- **Intermediate** Proficiency: C++, HTML/CSS, JavaScript
- **Advanced** proficiency: C, Python, Java, C#, MATLAB

Software Suites:

- **Intermediate** Proficiency: SIMULINK, COMSOL, Photoshop CC, Autodesk Inventor, Eclipse.
- **Advance** Proficiency: Microsoft office suite, Visual Studio, Android Studio, Aspen Plus