CHUKWUBUIKEM UME-UGWA

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EXPERIENCE

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

Computational Simulation and Visualization of Nanoparticle Sintering

- Simulated nanoparticle sintering to better understand the physics then develop a sintering machine.
- 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

- Trained rats to identify a target stimulus using operant conditioning.
- 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.

Projects:

Carpool Friends: A social networking application for managing carpools.		May 2017 – present
Control System for industrial Digester: A feedback and feedforward control system		Apr 2017 – May '17
designed to keep an industrial	designed to keep an industrial digester within environmental specification.	
My Car Finder: An application that makes finding your car less of a hassle by saving		May 2016 – present
parking location and routing t	parking location and routing to the location. Get it http://bit.ly/2jnpp98 .	
 Self-Heating natural bug repellent system: A repellent dispersion system that uses 		Feb 2017- April '17
exothermic reaction to aid dispersion of repellent.		
 Chemical Vapor Deposition reactor design: A vapor deposition reactor that has a 		Oct 2016 – Dec '16
theoretical yield of 75%.		
Report Analyzer: An application that reduces the amount of time it takes to grade a lab		Dec 2016 - Feb '17
report by doing a word count analysis on report sections.		
Trading Journal: A trade documentation application.		Sep 2014 – present
EDUCATION		
B.S in Chemical Engineering	University of South Florida, Tampa FL.	December 8 th 2017
Overall GPA: 3.75/4.0 ; Major GPA: 3.67/4.0		
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
- Advance 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