

EMPLOYMENT

Summer Intern	Institute for Computational Engineering and Sciences, U-Texas	Summer 2017
Computational Simulation of Nanoparticle Sintering		
<ul style="list-style-type: none">Used the first principles to develop a parameter search algorithm for obtaining feasible simulation parameters in C/C++.Developed a parallel algorithm for data visualization and processing in Python.		
Undergraduate Research	University of South Florida	Summer 2016 – Spring 2017
Glaucoma Treatment		
<ul style="list-style-type: none">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
<ul style="list-style-type: none">B.S. in Chemical Engineering, Dec 2017. GPA: 3.75/4.0; Major: 3.67/4.0Undergraduate Coursework: Transport phenomena; Separations; Process Dynamics & Controls; Material and Energy balance; Programming Concepts; Instrument systems, Numerical methods; Product & Process Systems Engineering; Process & Product Design; Chemical Engineering Lab I&II; Reaction Engineering.		

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 – 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

- Outstanding product design, Senior Design Project:** 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++(intermediate); (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;