James M. Copeland

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EDUCATION

University of South Florida

Tampa, FL

Bachelor of Science in Chemical Engineering

GPA: 4.0/4.0

May 2018

WORK EXPERIENCE

University of South Florida: Research Assistant

Spring 2017 – Present

- Modeled a steel-tendon corrosion system in COMSOL under Dr. Timothy Fawcett to determine the effect of cathodic protection on structural supports in bridges
- Developed a 3D chloride diffusion model with COMSOL for Dr. Alberto Sagüés to confirm experimental results and investigate the effect of chloride ions on cathodic protection

Publix Super Markets, Inc., FL: Customer Service Specialist

May 2012 – Present

- Commended as a role-model employee by customer service managers for providing premier customer service and demonstrating leadership to fellow employees
- Trained employees on how to positively interact with customers and successfully complete job tasks

Saint Petersburg, FL: Private Tutor

2015 - 2017

• Instructed students about the problem-solving techniques and curricular knowledge necessary to succeed in their mathematics and chemistry classes

RELEVENT EXPERIENCE

Reactor Sizing Application

Fall 2017

• Programmed a graphical-user-interface in MATLAB to allow users to determine the amount of catalyst required for a Hydrogen/Oxygen fuel cell application

iFixit Spring 2016

• Managed a team that created a technical repair guide for the Motorola Moto G 3rd generation smartphone published through iFixit.com

Thermo-solve Fall 2015

• Directed a class project that successfully developed a MATLAB program to solve certain thermodynamic-based, closed-system problems

SKILLS

Programming Languages and Applications

- Proficient with MATLAB and COMSOL
- Experienced with Microsoft Office (Word, Excel, PowerPoint, and Visio) and Aspen
- Familiar with C++, Python, Java, HTML, CSS, and the Linux OS via a command line terminal

Safety and Chemical Engineering Education (SAChE) Certifications

 Chemical Reactivity Hazards, Dust Explosion Control, Inherently Safer Design, Nitrogen's Role in Safety, Process Safety Lessons Taught from Experience, Risk Assessment, Runaway Reactions, and Safety in the Chemical Process Industries

HONORS & AWARDS

•	King O'Neal 4.0 Scholar from USF	2018
•	Dean's List at the USF College of Engineering	2015 - 2017
•	AIChE 2015-2016 Donald F. Othmer Sophomore Academic Excellence Award	2016
•	William Rice Mathematics Award from Saint Petersburg College	2015