

# KATHERINE E. SANTORA

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## EDUCATION

### **B.S. Materials Science and Engineering**

August 2019

*University of Florida*

- GPA: 3.28/4.00, Cum Laude
- Specialization in Biomaterials

## PROFESSIONAL WORK EXPERIENCE

### **Product Development Engineer**

Sep. 2019 – Jan. 2021

*Charter Medical*– Winston-Salem, NC

- Worked as project manager for the development of new single-use polymeric biomedical devices
- Updated designs and features of standard product lines to make them more competitive in the current market
- Worked directly with customers to develop custom solutions for their device needs using AutoCAD modeling
- Wrote work instructions for a variety of lab, packaging, and production machinery
- Generated and performed test protocols for design verification and validation tests
- Completed qualifications for production equipment, tooling, and completed products

### **Undergraduate Research Assistant**

Aug. 2018 – Aug. 2019

*Materials Science and Engineering Department* – University of Florida

- Synthesized biocompatible and biodegradable CO- Eluting polymer for use in cancer treatment and wound-healing applications
- Quantified CO-release from polymer
- Used techniques such as DSC and SEM to conduct a materials characterization of the polymer
- Passaged and maintained cultures of U87MG Glioblastoma cells
- Determined the effects of CO on the proliferation of Glioblastoma cells

### **Materials Engineering Intern**

April 2017 – Aug. 2017

*Kyocera International* - Mountain Home, NC

April 2018 – Aug. 2018

- Assisted in the development of alumina 3D-printing protocol
- Pioneered slip casting with alumina slurry in the Mountain Home branch
- Data analysis of ceramic powder compression under varying environments
- Helped double production of zirconia, increasing overall monthly revenue
- Extensive lab work including microtrac, CMM measurements, SEM measurements, densities, strength testing, grain sizing, polishing, and dry pressing

## OTHER WORK EXPERIENCE

### **Yoga Instructor**

Dec. 2019 – Current

*LA Fitness*– Winston-Salem, NC

- Certified Yoga Instructor (200-hour certification)
- Instruct 2 class per week ranging skill levels
- Lead yoga events for upwards of 50 students

## SKILLS

- *Technical:* AutoCAD, Granta, Arduino, Optical Microscopy, Scanning Electron Microscopy, X-Ray Diffraction, Electron Diffraction Spectroscopy, Coordinate Measuring Machine, Charpy Impact Testing, Vickers Hardness, Rockwell Hardness, Tensile Testing, Compression Testing, Epoxy Mounting, Ceramic Polishing, Microtrac, Data Analysis, Material Selection and Characterization, Microsoft Office
- *Non-Technical:* Strong written and verbal communication, public speaking, basic French
- *Basic Knowledge:* Java, Matlab, SolidWorks, LabView