

Charles A. Kelly

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#3869 Tulane University
31 McAlister Drive
New Orleans, LA 70118

EDUCATION

Bachelor of Science and Engineering, Biomedical Engineering

Graduating May 2019

Minor: Sociology

Tulane University, New Orleans, LA

GPA: 3.717

Notable Coursework

Anatomy and Physiology Lab

- Dissected real cadavers to gain hands-on experience with physiological organization of humans
- Learned to identify physical structures and understand their biological function

Math Modeling and Analysis of Bio Systems

- Isolated key factors influencing a system and translated them into mathematical relationships
- Collaborated with a group to organize an hour long in-class presentation about applying linear regression

Product and Experimental Design

- Collaborated with a group to design a hypothetical device and refined it using engineering principles of design

RESEARCH EXPERIENCE

Biomedical Engineering Research Assistant

April 2017-Present

- Investigated the potential of High-Intensity Focused Ultrasound used in combination with other treatments as a method of ablating cancerous tumors and stopping metastatic activity

Laboratory Skills

- Cell culture techniques required to grow and maintain cells for experiments in vitro
- Experience working with small animals to grow and treat cancer tumors in vivo
- Organization of information gained from experiments for the purposes of publication

LEADERSHIP EXPERIENCE

Chairman of Fundraising for Theta Tau (Professional Engineering Fraternity)

March 2017 - Present

- Planned events where the fraternity needed to invest in the means necessary to deliver a good or service; this good or service had to be appealing and strategically priced in order to raise money
- Communicated with membership to ensure events were well staffed and that everyone on site was familiar with what they were doing
- Installed our first large scale, large profit margin fundraiser where we raised over \$500 using resources on campus to make personalized laser cut designs on wood.

Residential Advisor for Tulane Housing and Residence Life

August 2016 - Present

- Facilitate a positive living environment for all residents
- Advise students on how to succeed at college
- Collaborate with others in HRL to share knowledge and create solutions

Boy Scouts of America

2003 - 2014

- Earned the rank of Eagle Scout
- Developed values and skills alongside men of all ages and experiences that will provide a lifetime of guidance