

Zachary Boogaart

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Education

High School Diploma 2012-2016

Jensen Beach High School
Jensen Beach, FL
4.0/4.0 GPA

Bachelor of Science in Biomedical Engineering 2016-2020

University of Florida
Gainesville, FL
Magna Cum Laude
3.78/4.0 GPA

Volunteer Experience

Footprints: Buddy and Support Program 2018-2020

- Treasurer
- Volunteer in the pediatric immunocompromised unit at Shands Children's Hospital
- Support patients and their families
- Seek to let "kids just be kids"

J.O.Y. Service Organization 2018-2020

- Founder
- Volunteer at Oak Hammock
- Provide support for geriatric patients

Alpha Epsilon Delta 2018-Present

- Pre-health honor society
- Volunteer with health-related organizations all over Gainesville
- Raise money for Climb for Cancer and Mobile Outreach Clinic

Tau Beta Pi 2019-2020

- Gator Trax volunteering to teach engineering principles to elementary school students

Work Experience

Biomedical Engineering Grader 2019-2020

- University of Florida, Gainesville, FL
- Paid grader/teaching assistant for Biomedical Engineering Fundamentals

Rec Sports Employee 2018-2020

- University of Florida, Gainesville, FL
- Competitive Sports Supervisor
- An official for football, volleyball, and soccer
- Sailing Instructor for University of Florida students and staff

STEM Tutor 2019-2020

- Santa Fe College, Gainesville, FL
- Tutor in math, chemistry, physics, and biology for college students

United States Sailing Center of Martin County 2014-2017

- Taught people aged 7-70 how to sail

- Organized classes and course material for year-round instruction
- Ran the summer camp during 2017

Environmental Studies Center

2014-2016

- Taught students ranging from 7-17 about the environment and the local ecosystem

Involvement

EVA-01 Nerve Stimulator

2019-Present

- Design project to bring voice-control to a peripheral nerve block procedure
- Creates efficiencies for physicians and the procedure
- Partnered with UF Health and UF Biomedical Engineering

Research

2019-2020

- University of Florida Brain Mapping Lab
- Objective assessments of essential tremor using wearable sensors
- BMES Annual Meeting poster presentation, Philadelphia, PA

GEMRU

2018-2020

- Gator Emergency Medical Response Unit
- Student-run EMR/EMT organization for the University of Florida

First Responder Gator

2018-2019

- Taught emergency medical response techniques to University of Florida Students
- Administered EMR certificate to students at the end of each semester

Affiliations

- Member, Alpha Epsilon Delta, 2018-2020
- Researcher, Brain Mapping Laboratory, 2019-2020
- Member, Zeta Beta Tau, 2017-2020
- Member, Tau Beta Pi, 2019-2020
- Treasurer, Footprints, 2018-2020
- Founder, J.O.Y., 2018-2020
- Treasurer, UF Sailing Club, 2018-2019
- Member, Gator EMR Unit, 2019-2020
- Teaching Assistant, First Responder Gator, 2018-2019
- Team NERV, 2019-Present

Academic Achievements

- Magna Cum Laude, University of Florida, 2020, Gainesville, FL
- Poster presentation, Biomedical Engineering Society Annual Meeting, 2019, Philadelphia, PA
- Presidents Honor Roll, University of Florida, 2016, Gainesville, FL
- Dean's List, University of Florida, 2016-2020, Gainesville, FL
- Scholarship, Sailfish Point Foundation, 2016, Jensen Beach, FL
- Scholarship, Acacia Lodge, 2016, Jensen Beach, FL
- Scholarship, US Sailing Center of Martin County, 2016, Jensen Beach, FL
- Scholarship, Florida Bright Futures, 2016-2020, Gainesville, FL

Skills

- Patient interaction
- Programming in C++, Python, Java, MatLab
- Cell culture

References Available Upon Request