

Tyler Beasley

(404) 432-2452 | tylerbeasley@outlook.com

EDUCATION

University of South Carolina, Columbia, SC

Anticipated Graduation: May 2025

BSE in Computer Engineering

Minor in Data Science

GPA: 3.89

Capstone Scholars and Dean's List Fall 2021 – Spring 2023

Presidents List Fall 2021

Tau Beta Pi Engineering Honors Society Member

RELEVANT COURSES

Robotic Applications and Design

Advanced Logic Design

Advanced Programming
Techniques

Algorithmic Design I/II
Operating Systems

Electrical Sciences
Calculus and differential equations

Linux/Unix Fundamentals
Computer Architectures

WORK EXPERIENCE

USC Center for Predictive Maintenance

Undergrad Research Assistant

August 2023 - Present

- Designed components of a helicopter using CAD and finite element analysis to create a simulation that reads vibration signals of faulted bearings to be used to detect bearing faults on active helicopters
- Collaborated with research team on simulations, data collection, and developing final research report

Dodie Anderson Athletic Enrichment Center

Tutor

August 2022 - May 2023

- Assisted student-athletes in courses such as calculus, statistics, algebra, physics, and more
- Mentoring peer students with a focus on genuine understanding of subjects and concepts in order to provide an improved understanding of their course

TECHNICAL AND LEADERSHIP EXPERIENCE

- Using C/C++ and java on various projects involving sorting algorithms as well as OS simulation
- Used System Verilog to program a DE2-115 board and create a RISC-V processor, capable of reading most assembly instructions
- Created python programs with Docker and ROS for robotics programming, including a PID controller to allow lane following capabilities on the robot

Sustainable Carolina

Zero Waste Team Member

August 2023 – Present

- Working with like-minded peers in coordinating on-campus events with the idea of reducing waste in day-to-day life, such as coordinating on-campus trash pick-ups and other events to raise awareness for sustainability on-campus

SKILLS

C++
Matlab
Abaqus

Linux/Unix
Python
Java

System Verilog
Creo/Solidworks
ROS

