

BRAEDEN CONRAD

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EDUCATION

The University of Texas at Austin

Computational Engineering Honors - GPA: 3.93 - Expected Dec 2020

WORK EXPERIENCE

NASA Johnson Space Center; Clear Lake, TX;

Pathways Intern (Flight Systems Branch)
2020

May 2020 – Aug

- Managed an ICA funded project for the creation of an exosuit prototype with 8 other interns
- Handled budgeting, procurement, and down selection of all build materials and sensors
- Developed a Python software for collecting data from a network of wired/wireless sensors
- Wrote detailed documentation of data collection software design via Gitlab markdown

Pathways Intern (Simulation & Graphics Branch)

Sept 2019 – Dec 2019

- Developed a Trick based simulation of lunar ascent-to-orbit by using C++ & Python to start a GN&C framework
- Assisted in motion capture data recording and cleaning for an exercise stability study
- Automated motion capture data post processing, resulting in a 4 hour decrease in processing time per motion capture subject

Pathways Intern (Avionic Systems Branch)

Aug 2018 – Dec 2018

- Developed a machine learning engine in Python for localization of RFID tags on items in the ISS
- Wrote Python code for pre-processing of an electromagnetic model of an antenna

Software Engineering Intern – JP Morgan Chase; Frisco, TX;

Jun 2019 – Aug

2019

- Collaborated with a group of 4 interns to develop a microservice for a web app for loan reviews
- Developed the front end portion of our project using Angular and TypeScript
- Redesigned part of the RESTful API backend using Java and Spring

Student Technician – Austin Research Lab; Austin, TX;

Jan 2018 – Aug

2018

- Developed interfaces in C++ for gathering data from a pressure transducer and sound velocimeter for an underwater vehicle
- Applied a Kalman filter to noisy data from an advanced sonar device to help correct data

LEADERSHIP EXPERIENCE AND ACTIVITIES

Operations Coordinator and Counselor– Camp Kesem; UT Austin;

Sept 2016 – Present

- Provided a free camp experience for children whose parents have been affected by cancer
- Organized and planned the entirety of two one week long sessions of camp for 400+ people
- Lead camp as a part of the camp admin team that facilitates all camp activities and assists campers and counselors with all aspects of camp
- Organized and planned 2 online camp sessions due to the COVID-19 environment, which included developing a website for our campers to use as a resource

OTHER SKILLS AND INTERESTS

Skills: Unix/Linux, Git, project management, software design and documentation

Interests: Sports & Fitness training (pursuing CSCS), data analysis, working with kids