Controls Intern

Czero is looking for a few exceptional students to hire into our intern program to support research and development technology projects. In this role, you will work in a collaborative team environment to develop designs for cutting-edge technologies in a wide range of industries, including clean energy, advanced automotive, transportation, and aerospace. Czero’s internship program is a multi-semester program where we provide extensive training and mentorship to the students. Through this challenging program you will hone your engineering skillset while working as a part of our interdisciplinary team. While we cannot guarantee job offers at the end of the internship, finding promising new engineers to hire is a primary objective.

Czero specializes in early-stage research and development of innovative technologies in the energy sector, in particular those that reduce energy consumption and/or harmful emissions. At any given time, our projects may include wave energy, compressed air storage, hydrogen infrastructure, automotive powertrains and valvetrains, fuel cells, and hydraulic power systems, to name a few. If you join us, you will be immediately contributing to a project team of other motivated and passionate problem solvers as we strive to deliver the best designs for our customers and positively impact the environment.

We are committed to a diverse and inclusive work environment - women and minorities are strongly encouraged to apply to work with us.

Representative tasks

* Design and build electrical control systems using various tools and methodologies
* Implement and develop control algorithms on a wide variety of platforms (embedded controllers, rapid prototyping systems, PLC’s, Arduinos, etc.)
* Test control systems in lab and real-world conditions
* Data collection, data processing, and DAQ system development
* Electronics and mechanical work

Education

* Taking Junior or Senior courses in Electrical or Mechanical Engineering during the upcoming 2024 Fall Semester.

Essential for this position

* Strong verbal and written communication and interpersonal skills
* A passionate interest, shared with everyone on the Czero team, in developing profitable innovations that make a positive global impact
* Commitment to Czero’s goals and a desire for continuous improvement

Beneficial Experience

* Thorough knowledge of programming concepts with experience in C/C++ development
* Experience with MATLAB/Simulink and/or LabView
* Ability to solder and wire sensors and actuators
* Desire to work on a variety of challenging controls problems

Residency requirements

* Must be U.S. citizen or Permanent Resident (Green Card)

Program Details

* Students work full time (40 hours per week) during summers, and 15-20 hours per week during school.
* We all still remember what it is like to be a student, so we build in flexibility to the schedule to allow for crunch time.

Contact:

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