

LAIR CHAMPION

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EDUCATION

University of Southern California, Viterbi School of Engineering – Los Angeles, CA
Bachelor of Science, Environmental Engineering

May 2026

EXPERIENCE

University of Southern California – Los Angeles, CA
Undergraduate Research Assistant

Sep 2023 – Present

- Engage in research activities under the guidance of Professor Kelly Sanders, involving system-level analyses aimed at addressing complex issues of technical, political, and societal importance
- Provide comprehensive insights to support informed decision-making in resource management
- Research specifically on climate change adaptation and mitigation strategies, with a specific emphasis on anticipating the impacts of climate change on energy systems.

University of Southern California – Los Angeles, CA
Student Environmental Health & Safety Training Administrator

Apr 2023 – Present

- Orchestrate training programs, ensuring their timely scheduling and adherence to university guidelines
- Maintain meticulous records of training sessions, ensuring their organization and accessibility
- Facilitate the issuance of certifications and credentials upon successful completion of training requirements

Target – Sausalito, CA
Presentation Team Member

June 2022 – Aug 2022

- Effectively applied company guidelines to craft innovative merchandise displays
- Designed compelling signs and labels to enhance sales efforts and customer engagement
- Ensured the availability of up-to-date products on shelves, contributing to a seamless shopping experience

ACADEMIC PROJECTS

Boeing Freshman Design Competition, 4th Place – Los Angeles, CA
Project Team Lead

Mar 2023

- Led a project focused on designing an asteroid particle collector with an emphasis on optimizing sample return mass while concurrently minimizing mission duration, expenses, and potential risks
- Conducted comprehensive research using NASA's extensive libraries to explore and evaluate diverse design specifications

National Academy of Engineering Innovation Competition – Los Angeles, CA
Project Team Lead

Aug 2022 – Dec 2022

- Spearheaded a project that sought to identify a substantial issue within one of the National Academy of Engineering's Engineering Grand Challenges, subsequently crafting an innovative solution plan
- Conducted in-depth research into a range of novel, environmentally friendly energy generation methods
- Employed Solidworks to engineer a tangible 3D prototype of a wind turbine kite, showcasing the practical application of the innovative solution
- Secured first place in the USC Viterbi Student Entrepreneurship Education Program Class Competition

SKILLS & INTERESTS

- Computer: Python, Solidworks, Arduino IDE, Autodesk Fusion, Microsoft Office, Adobe Creative Suite
- Community Service: National Society of Black Engineers Pre-College Initiative Committee
- Clubs: USC Makers, USC Solar Car Design Team, USC Rocket Propulsion Laboratory