DORIAN CRUTCHER

(951)-241-9683| doriankcrutcher@gmail.com

EDUCATION

University of California Davis (graduation date 6/2018)

Bachelors of Science, Mechanical Engineering (2.9 GPA)

SKILLS

- Mathworks MATLAB, SolidWorks, Microsoft Office, PTC Creo, CNC Programming, Esprit, Scan Studio, Repetier Host, VCarve, NASA Overgrid/Overflow Software, C/C++ Programming, Unity Engine Software
- Woodworking, Machining operations (Lathe, Band saw, Milling, etc.), 3D Printing

EXPERIENCE

UC Davis Engineering Student Startup Center (ESSC) - Workshop Coordinator

Davis, CA Mar 2016 - Present

Teach 3D printing, 3D modeling, Arduino programming, and CNC mill programming workshops. Coordinate shifts, of other ESSC employees to teach the workshops, and works with other employees to create new workshops and draft the teaching material. Responsible for managing all equipment by conducting daily maintenance needs and repairs. Analyze students' designs with SolidWorks, and give recommendations on how to effectively optimize or rapid prototype their projects.

UC Davis Solar Car - Member/Suspension Team

Davis, CA Aug 2015 - Present

Work with other designers by using SolidWorks in developing a working suspension design for the car. Building and manufacturing the vehicle chassis and suspension.

UC Davis Aeroacoustics/Aerodynamics Research Lab - Member

Davis, CA Mar 2017 - Present

This research lab focuses on aerodynamics, aeroacoustics, and computational fluid dynamics (CFD) with applications to rotorcraft, wind energy, and turbomachinery. Conduct mathematical and computational research on fluid mechanics, aerodynamics, and aeroacoustics. I utilize NASA's OVERFLOW and OVERGRID software in order to utilize CFD simulations to aid in this research.

UC Davis Police Department - Aggie Host Security Officer

Davis, CA Dec 2014 - Feb 2017

Maintained campus and student security through area checks, building checks and nightly patrols. Serve as Safe Ride Driver for the UCD Safe Ride Escort Service, work small and large campus events in order to maintain a safe environment for the public

Cans4Care - C.E.O.

Riverside, CA - Jun 2010 - Aug2013

Founded and managed non-profit organization to provide financial aid to other nonprofits and students financially. Collected and consolidated recyclable items and turned them over to a partnering recycling center for profit. Establish clients, manage employees and delegate work out of multiple locations, insurance and coverage, and hiring. Received awards from the NAACP and BrotherIIBrother mentorship programs.

Flabob Airport- Stits Skycoupe Build Project

Riverside, CA - Sept 2009 - Aug2013

Under the instruction of a supervisor, myself and a group of other students worked together to build a fabric-covered aircraft, learning valuable skills in aviation mechanics and problem solving

EXTRACURRICULAR

- **Flight School** Trained in flying single engine aircraft such as a Cessna 172 and Cessna 152. Knowledge of FAA regulations along with completion of the FAA Written Exam.
- **Homeless Outreach Program** Assisted First Baptist Church in preparing food for the homeless populations in Riverside.
- Young Eagles Trained in flight ramp management, specifically maintaining and prepping aircraft for flight (preflight checks, general maintenance), marshal and direct aircraft, and communicate with pilots while in a local flight pattern, also learned crowd control management while working at airshows.