

## **Troy Nakagawa**

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### **PROFESSIONAL PROFILE**

Analytical and outcome oriented Aeronautics and Astronautics engineering student. A lifetime learner that adapts quickly, and big picture driven. Values hard work and productivity. Thrives in a variety of environments. Confident decision maker who analyzed each situation with ethical framework.

### **EDUCATION**

University of Washington Seattle, WA  
M.S. in Aeronautics and Astronautics Engineering June 2020

University of North Texas Denton, TX  
B.S. in Mechanical and Energy Engineering May 2018  
GPA: 3.9, Presidents List 2014-2017, Summa Cum Laude

### **TECHNICAL SKILLS**

- Experience with Microsoft Office, AutoCAD, Pro-Engineering, Solidworks, ABAQUS, and MATLAB

### **ENGINEERING PROJECTS/RELEVANT PROJECTS**

Senior Project: Zodiac Seats US (Faculty Choice Award)

- Use Universal Robots to automate assembly of base frame of aircraft seats
- Design and perform analysis on robot end effector

Master's Thesis: Out Time Study of Carbon Fiber Prepreg

- Design environmental chamber to house prepreg in a controlled environment
- Manufacture discontinuous fiber composite and perform various mechanical test
- Analyze data and compare to simulation results

### **RESEARCH EXPERIENCE**

University of Hawaii

Research Laboratory Assistant Dr. Reza Ghorbani 2015

- Develop housing for circuit breaker switch with wifi chip
- Test and improve wave energy device
- Prepare documents for investors and future employees

University of Hawaii

Research Lab Assistant Dr. Reza Ghorbani 2016

- Assist with solar powered hydroponics workshop for STEM teachers
- Develop wave energy device
- Make a cost analysis of the wave energy device

University of Hawaii

Research Lab Assistant Dr. Reza Ghorbani 2017

- Assist with Solar A.C./Refrigeration controls, circuitry and installation
- Assist developing middle school renewable agriculture competition
- Develop wave energy lesson for middle school science course