

Dickens Law

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Education

Texas A&M University, Dwight Look College of Engineering

Master of Science in Mechanical Engineering

Anticipated May, 2017

Binghamton University, State University of New York, Watson School of Engineering

Bachelor of Science in Mechanical Engineering

May, 2015

Cumulative GPA: 3.328 / 4.00

Pi Tau Sigma – Mechanical Engineering Honor Society

Spring, 2015

Team Projects and Individual Projects

Formula Hybrid SAE (Electric) – Society of Automotive Engineering

Binghamton, NY

Sep 2014 – May 2015

- Designed structural configuration of suspension, steering, and braking using Creo 2.0 to plan build time, provide visual representation for team member, and provide models for other sub-teams for virtual integration
- Conducted vibration analysis (Matlab, ANSYS), Finite Element Analysis (Creo 2.0) on the vehicle's suspension system to ensure maximum handling for driver on all competition scenarios
- Produced prototype parts with composite materials (Carbon Fiber) to reduced weight of vehicle

Penn State Boeing VTOL Competition – Lockheed Martin, Society of Hispanic Professional Engineer

Binghamton, NY

Sep 2013 – May 2014

- Designed a drone and a secondary system, capable of retrieving tennis ball through wireless communication, using Creo 2.0 to provide visual representation for customer
- Manufactured the drone and secondary system through off the shelves parts and 3D printed parts
- Documented the FMEA, budget, and progress of the project through Lockheed Martin's project development system
- Communicated with Lockheed Martin advisor on build progress of the drone and its subsystem through weekly conference and presentation

Analysis of Motion and Stress of a Landing Gear

Binghamton, NY

Sep 2013 – Dec 2014

- Designed a three point linkages system that is able to extend and retract a C-130 landing wheel
- Conducted mechanism analysis and finite element analysis on CREO to evaluate maximum stress, force, angular velocity and angular acceleration experienced by individual pins and linkage
- Composed a final report explaining decisions made on the design, and utilizing solid mechanics principle to verify result generated by CREO's mechanism function and simulate function

Graduate Courses

Finite Element Analysis

Analytical Method

Mechatronics (Classical approach)

Engineering Dynamics

Intermediate Heat Transfer

Modeling and Analysis of Mechanical System

Technical Skills and Software

Autodesk Inventor, PRO-E CREO, Matlab, ANSYS

Resin Infusion, General Welding, Additive Manufacturing (M3D, Makerbot)