Brent Michael Wooldridge

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EDUCATION

TEXAS A&M UNIVERSITY
Major: Mechanical Engineering
Minor: Mathematics
Expected Graduation: Dec 2019
Entered college with 34 credit hours
GPA: 3.50 | College Station, Texas

CONNECT

LinkedIn:// **brentmw**
Twitter:// **@iBrently**
Personal Website://
brentwooldridge.com

COURSEWORK

Dynamics and Vibrations
Fluid Mechanics
Thermodynamics
Mechanics of Materials
Engineering Mechanics
Principles of Electrical Engineering
Physics Electricity & Magnetism

SKILLS

Advanced:	Intermediate:
• Solidworks	• Matlab
• Catia V5	• LabView
• AutoCAD	• HTML
• MS Office	• Photoshop
• 3D Printing	• German

OTHER

- Knowledge of various 3D printable materials
- Experience with various machine shop tools and fabrication methods

EXPERIENCE

TESLA | Mechanical Engineering Intern; Body in White Team
Sept 2017 - Dec 2017 | Fremont, CA

- Continuously improved control systems to address the quality for current/future vehicle bodies and closures.
- Worked with the metrology lab to maintain accuracy of our parts and assemblies and analyzed data to identify a problem's source.
- Gained knowledge about Tesla's manufacturing processes, datum structures, GD&T, checking fixtures, process engineering & machine shop tools.
- Designed tools and safety structures in Catia for current vehicles. One tool is now used to check door-to-fender flush on the Model X.

UNITED AIRLINES | Propulsion Engineering Intern
Jan 2017 - Apr 2017 | San Francisco, CA

- Provided engineering support, checked aircraft, investigated system failures and maintenance incidents.
- Helped improve performance and reliability of turbofan jet engines, performed cost analysis, recorded data from engines used in Airbus/Boeing aircraft.
- Had the great privilege of traveling the world every weekend.

RESEARCH | Student Assistant to Dr. Rainer Fink
Jan 2016 - Dec 2017 | College Station, TX

- Part time position performing research and generating models via Solidworks for various projects with a team of engineers.
- Designed a reverse injection mold for a pregnancy patch that reads data much like that of an ultrasound.

EXTRACURRICULAR ACTIVITIES

SAE AERO | CAD/Manufacturing Team
Apr 2016 – Present | College Station, TX

- A team of 25 engineering students who design, build, and fly electric powered RC aircraft (12' span) for an int'l competition. 75 teams compete.
- Contribution: Generate models via Solidworks and build the aircraft.
- **2017 Results:** Regular class - 2nd Overall; Micro class - 3rd Overall
- **2018 Results:** Regular class - 1st in Design, 3rd in Presentation, 4th in Flight

FORMULA SAE | Volunteer to Senior Design Team
Sept 2015 – May 2016 | College Station, TX

- A team of engineering students who design, construct, and drive a Formula 1 vehicle for an international competition.
- Contribution: Assist in cleaning and adding/removing parts from vehicles of previous competitions.