

Brent Michael Wooldridge

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EDUCATION

TEXAS A&M UNIVERSITY

MAJOR: MECHANICAL ENGINEERING

MINOR: MATHEMATICS

Junior; Senior by credit hours

Entered college with 34 credit hours

Dec 2019 | College Station, Texas

GPA: 3.50

CONNECT

LinkedIn:// **brentmw**

Twitter:// **@iBrently**

Personal Website://

brentwooldridge.com

COURSEWORK

Fluid Mechanics

Dynamics and Vibrations

Mechanical Measurements

Thermodynamics

Principles of Electrical Engr

Mechanics of Materials

Engineering Mechanics

Differential Equations

Calculus III

Linear Algebra

Material Science

Chemistry for Engineers

Physics Mechanics

Physics Electricity & Magnetism

Economic Analysis of Engr Projects

SKILLS

Advanced:

• Solidworks

• Catia V5

• AutoCAD

• Excel

• Word

Familiar:

• Matlab

• LabView

• XFLR5

• Photoshop

• German

HONORS & AWARDS

- Presidential Award of Academic Excellence
- Distinguished Achievement Scholar
- University Interscholastic League Scholar

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 products, specifically for the vehicle frame and closures.
- Actively monitored dimensional accuracy of BIW via various measurement systems and analyzed data to identify a problem's source.
- Learned about Tesla's manufacturing processes, the datum structure of the Model 3, the use of checking fixtures, the tasks of a process engineer, etc.
- Designed and developed tools in Catia for current and future projects. One being a door-to-fender flush tool for 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, prepared cost analysis on projects, constructed data on various components of Airbus and Boeing aircraft.
- Explored ideas for reduced emissions, hybrid engines, and electric motors.
- Traveled the world every weekend with some business trips in between.

RESEARCH | STUDENT ASSISTANT TO DR. RAINER FINK

Jan 2016 - Present | 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.

HGE CONSULTING, INC. | SUMMER ENGINEERING OBSERVATION

Jul 2015 | Houston, TX

- Engineering firm specializing in commercial construction.
- Learned about how the team utilizes AutoCAD to draft HVAC, plumbing, and electrical systems for their client's projects.

EXTRACURRICULAR ACTIVITIES

SAE AERO | CAD/MANUFACTURING TEAM

Apr 2016 - Present | College Station, TX

- Highly selective team of 25 engineering students who design, construct, and fly electric powered RC aircraft (12' span) for an int'l competition.
- Contribution: Generate models via Solidworks and build the aircraft.
- **2017 Competition Results:** Regular class - 2nd Overall; Micro class - 3rd Overall. 75 teams from around the world competed.

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.