

Brent Michael Wooldridge

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EDUCATION

TEXAS A&M UNIVERSITY

MAJOR: MECHANICAL ENGINEERING

MINOR: MATHEMATICS

Pursuing Fast-Track M.S. in ME

Entered college with 34 credit hours

Senior by credit hours

Dec 2019 | College Station, Texas

GPA: 3.5

CONNECT

LinkedIn:// [brentmw](#)

Twitter:// [@iBrently](#)

Personal Website://
[brentwooldridge.com](#)

COURSEWORK

Thermodynamics

Principles of Electrical Engr

Mechanics of Materials

Differential Equations

Engineering Mechanics

Calculus III

Physics Mechanics

Physics Electricity & Magnetism

Economic Analysis of Engr Projects

Material Science

Chemistry for Engineers

Foundations of Engineering

Linear Algebra

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.