

Brent Michael Wooldridge

www.brentwooldridge.com
wooldbre@tamu.edu | 713.412.7314

EDUCATION

TEXAS A&M UNIVERSITY

MAJOR: MECHANICAL ENGINEERING

MINOR: MATHEMATICS

Pursuing Fast-Track M.S. in ME

Entered college with 34 credit hours

Classified Junior (88 total hours)

May 2019 | College Station, Texas

Cum. GPA: 3.4

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

• AutoCAD

• Catia V5

• Excel

• Word

Familiar:

• Matlab

• LabView

• XFLR5

• Photoshop

• German

HONORS & AWARDS

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

EXPERIENCE

UNITED AIRLINES | PROPULSION ENGINEERING INTERN

Jan 2017 - Apr 2017 | San Francisco, CA

- Provided engineering support, checked aircraft, investigated system failures and maintenance incidents.
- Played a part in improving performance and reliability of jet engines, prepared cost analysis on projects, constructed data on various components of Airbus/Boeing aircraft.
- Explored ideas for reduced emissions, hybrid engines, and electric motors.

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.
- Previously contributed to the development of a controllable hydroelectric kayak that was approved by Bass Pro Shop.
- 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, one of which has a 16' span, for an international competition. Funded by the Aerospace Department.
- Contribution: Generate models via Solidworks and build the aircraft.
- **2017 Competition Results:** Regular class - 1st in Oral Presentation, 2nd in Flight, 6th in Design Report. Micro class - 1st in Design Report, 3rd in Flight, 6th in Oral Presentation. 75 teams from around the world competed.

FORMULA SAE | ASSISTANT TO SENIOR DESIGN TEAM

Nov 2015 - Present | College Station, TX

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

ENGINEERING GLOBAL PROGRAM | MEMBER

Aug 2015 - Aug 2016 | College Station, TX

- Group of engineering students who invite foreign Texas A&M faculty/graduates to give a presentation on engineering and opportunities in their native country.
- Helped me attain a greater understanding of how engineering impacts other cultures and countries around the world.