

# 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

Classified Junior (U3)

May 2019 | College Station, Texas

Cum. GPA: 3.4

## CONNECT

LinkedIn:// **brentmw**

Twitter:// **@iBrently**

Personal Website://  
**brentwooldridge.com**

## COURSEWORK

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

Solidworks (advanced) • AutoCAD

Catia V5 (learning) • Matlab

Excel • Word • LabView • XFLR5

PowerPoint • German (limited)

## HONORS & AWARDS

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

## EXPERIENCE

### UNITED AIRLINES | PROPULSION ENGINEERING INTERN

Jan 2017 - Present | San Francisco, CA

- Provide engineering support and check aircraft, investigate and provide decisions for fixing failures or maintenance incidents.
- Improve performance and reliability of jet engines, prepare cost analysis on projects, manage requests and regulations on Airbus/Boeing aircraft.
- Goals: Expand upon ideas for biofuels, reducing emissions, efficient fuel consumption, and hybrid engines or even fully electric powered motors.

### RESEARCH | STUDENT ASSISTANT TO DR. RAINER FINK

Jan 2016 - Present | College Station, TX

- Part time position performing research and generating models through 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.
- Current project: Designing 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 clients.

## EXTRACURRICULAR ACTIVITIES

### SAE AERO | CAD/MANUFACTURING TEAM

Apr 2016 - Present | College Station, TX

- Highly selective team of 26 engineering students who design, construct, and fly electric powered RC aircraft, one of which has a 10' span, for an international competition. Funded by the Aerospace Department.
- Contribution: Generate models through Solidworks and build the aircraft.

### 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.
- Helps me attain a greater understanding of how engineering impacts other cultures and countries around the world.