

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

RESEARCH | STUDENT ASSISTANT TO DR. RAINER FINK

Jan 2016 - Present | College Station, TX

- Part time employee performing research and generating designs utilizing Solidworks with a team of engineers for various projects.
- Previous projects include a Raman Spectrometer that detects chemical compounds in breath to determine disease states in humans for space suits, an impact detector for watercraft, and a self-propelled hydroelectric kayak that was recently approved by Bass Pro Shop.
- Current project: Modeling a reverse 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 their process of business through the mechanical/electrical engineers and the President of HGE Consulting.
- Learned 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 about 26 engineering students who design and construct electric powered radio controlled aircraft for international competition. Funded by the Aerospace Department.
- Regular class is based off a Cessna 172 with differences including wingloading, Reynold's Numbers, and moments of inertia. Micro class has more material freedom and is smaller in design.
- 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 international competition.
- Contribution: Assist in vehicle construction, clean and remove parts from vehicles of previous competitions.

ENGINEERING GLOBAL PROGRAM | MEMBER

Aug 2015 - Present | 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.