

Jace Rea

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OBJECTIVE

Junior classified second-year Mechanical Engineering student with a Biomedical Engineering Minor at Iowa State University aspiring to obtain an engineering related position for the furtherment of my work experience.

WORK EXPERIENCE

Curbtender | Cedar Falls, IA 50613 | May 2019 - August 2019

Engineering Intern

- Developed new component, assembly, and system design solutions for an innovative regenerative air sweeper
- Produced 3D models and drawings following ANSI and GD&T drafting standards
- Analyzed manufacturing processes and designs by observing and communicating with floor personnel as well as senior engineers

Ferguson | Waterloo, IA 50701 | June 2018 - August 2018

Shipping and Receiving Clerk

- Received, sorted, and moved merchandise within a distribution center in a strenuous fast-pace environment
- Found and solved shipment errors and variances utilizing inventory analysis programs and problem-solving skills

Wageman Construction | Cedar Falls, IA 50613 | March 2015 - August 2017

Construction Worker

- Framed houses, apartment buildings, and other large commercial structures in a team-based setting
- Built wood decks, poured concrete, and roofed and sided houses as well as various additions
- Operated forklift, skid loader, landscape equipment, and power and non-power tools

Pioneer Hi-Bred | Dysart, IA 52224 | June 2013 - August 2015

Detasseling Checker

- Ran my own crew as Checker Lead where I supervised twelve fellow detassellers and received a bonus stipend for the position
- Made cleaning and rouging crew teams due to the speed and accuracy of my performance within the field

EDUCATION

Cedar Falls High School, Cedar Falls, IA, Graduated: May 2018, GPA: 4.1/4.0 (True 4.0 with AP & Honors Level Coursework)

Iowa State University, Ames, IA, Bachelor of Science, Mechanical Engineering with a minor in Biomedical Engineering, Expected Graduation: May 2022, GPA: 3.64

BACKGROUND AND SKILLS

Exceptional Mechanical Aptitude | Thrive Under Pressure | Strong Work Ethic | Willingness to Learn | STEM Skills | Problem Solving | Detail Oriented | Analytical Thinking | Attention to Detail | Creativity | Innovation | Adaptability | Time Management | Teamwork | Communication | Prototyping | Troubleshooting | Testing | Control and Analysis Programs | FEA | CFD | Design | CAD | SolidWorks | Autodesk Inventor | GD&T | Commercial Construction Drafting | MS Office | MATLAB

HONORS AND INVOLVMENT

UNI Iowa Physics Competition (2017): Achieved 1st place in the toothpick bridge building event by creatively designing an innovative interlocking truss formation by researching current designs, performing static truss equilibrium force calculations, and extrapolating average thickness of toothpicks with glue to meet specified design constraints; Built in fast and efficient manner with custom jig apparatus; During competition, made alterations to zero-force members to enhance strength to weight ratio.

Football (2010-2018): 2-year letter winner while also making the All-Academic District Football Team with a 4.1/4.0 GPA.

Track and Field (2012-2017): Competed as a long sprinter in the 100, 200, and 400-meter races which required rigorous training six days per week as well as full time offseason training when not competing in another respective sport.

Biomedical Engineering Society: Member (2019-Present) | **American Society of Mechanical Engineers:** Member (2020-

Present) | **Theta Chi Fraternity:** Member (2019-Present) | **BWR Hall Council:** Academic Chair (2018-2019) | **Birch Lange**

House Cabinet: Academic Chair (2018-2019)