

## James Smith

800 Commons Circle SW, Mt. Vernon, IA 52314

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### EDUCATION

**Cornell College**, Mt. Vernon, IA

*Bachelor of Science in Engineering*, May 2018

Honors: Dean's List, May 2017

Relevant Courses: Engineering Mechanics, Mechanics of Deformable Bodies, Engineering Thermodynamics, Fluid Mechanics, Heat Transfer, Manufacturing Processes

### TECHNICAL SKILLS

CNC Machining (Mill & Lathe), CAD Software, Rapid Prototyping, Machine Shop Experience, Python, R(R- Studio), Schematic Tool, Zuken CR500, Mat-lab(Octave), Finite Element Analysis

### WORK & INTERNSHIP EXPERIENCE

**Berry Career Institute**, Cornell College, Mt. Vernon, IA

*Career Assistant*, August 2016-present

- Provide basic career exploration guidance and resume feedback to peer students
- Assisted with coordination of programs promoted by Berry Career Institute

**Rockwell Collins**, Cedar Rapids, IA,

*Technical Intern - Printed Circuit Design*, May 2017-September 2017

- Worked in a team of 4 interns to draft several circuit board designs; divided projects into sections to complete designs most efficiently
- Obtained a detailed understanding of procedures and methods of Electro-Mechanical Design and Mechanical Engineering over several job shadows

### HIGHLIGHTED COURSE PROJECTS-CORNELL COLLEGE

**Quadcopter drone Project**, October 2017

- Developed a drone-device capable of sustaining a safe and stable flight
- Manufactured the frame of device using the CNC mill and CNC lathe
- Minimized weight of frame from original design to create more efficient flight travel

**Scissor Lift Project**, March 2017

- Worked in a team of 5 students to manufacture and design a hand-powered lifting device
- Manufactured components of device using both the CNC mill and CNC lathe to create precise dimensions
- Designed mechanism to lift 50-99 pounds and fracture at 100 pounds up to a maximum of 4 feet

**Trebuchet Dynamics Project**, November 2015

- Designed and constructed a desktop-sized trebuchet capable of launching tennis ball 100 feet with a 20-pound counterweight
- Completed project within the time constraint of a week, and developed the most effective design through optimization of initial designs

**Grandfather Clock Design Project**, October 2015

- Collaborated with a multidisciplinary team to design, model, and assemble over 25 individual components in the CAD software PTC Creo 3.0 to create a skeleton-style grandfather clock
- Presented to the the class about the unique clock winding mechanism behind the design project that utilized a spring-loaded gear disengagement system for the easy repositioning of counterweights

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LEADERSHIP & SERVICE EXPERIENCE

**Cornell LEADS Program**, Cornell College, Mt. Vernon, IA,  
*Cohort Member*, September 2016-present

- Nominated and selected to participate in Cornell's distinctive leadership development program
- Participated in hands-on leadership building activities focusing on leadership, entrepreneurship, and distinctive service.

**Cornell College Football Team**, Cornell College, Mt. Vernon, IA  
*Team Captain/Member*, August 2014-present

- Coordinate off-season workouts and practices
- Teach first year players the playbook throughout preseason and regular season

**Cornell Fellowship of Christian Athletes**, Cornell College, Mt. Vernon, IA  
*Student Leader*, August 2014-present

- Coordinate fellowship activities and events
- Give presentations for 30+ students on a weekly basis