

# Ryan J. Seffinga

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## EDUCATION

### University of Wisconsin - Madison

#### Bachelor of Science, Fall 2016

#### Major: Machinery Systems Engineering

GPA in major: 3.18/4.00; Dean's Honor List (Fall 2014)

#### Relevant Coursework:

- Mechanics of Materials
- Statics & Dynamics
- Thermodynamics
- Fluid Dynamics
- Engineering Principles of Off-Road Vehicles
- Engineering Principles of Ag. Machinery
- Engineering Physics
- Intro to Programming

## PROFESSIONAL EXPERIENCE

### Precision Agriculture Intern

University of Wisconsin – Madison, Dr. Brian Luck - Advisor Madison, WI May 2016 – Aug. 2016

- Retrofitted an AgLeader RTK GPS auto-steering system to a Kubota brand RTV.
- Gathered plot boundaries and developed field prescription maps using AgLeader SMS software at the University of Wisconsin owned Arlington Agricultural Research Station.

### Mechanical Engineering Co-op

Oxbo International Corp. Clear Lake, WI Jan. 2015 – Aug. 2015

- Worked on a team of 6 other designers/engineers toward the production of a universal crop Plot Combine.
- Redesigned the rotor driveline subsystem from a chain driven design to a gearbox driven design.
- Created and revised component, weldment, and assembly models and drawings using Solidworks.

### Lab Technician Intern

PFS Corporation (QC and R & D) Cottage Grove, WI Aug. 2014 – Oct. 2014

- Performed a wide variety of test sample fabrications and structural testing according to ASTM standards.
- Gathered data using NI LabVIEW, generated lab reports using Microsoft Excel.
- Completed material property tests, including bending tests, tensile tests, compressive tests, racking tests, COF tests, shear tests, creep tests, and aging tests.

### Tire Technician

Discount Tire Inc. Madison, WI May 2014 – Dec. 2014

- Changed passenger and light truck tires in a fast paced work environment. Used Coats® tire changers, and Hunter Engineering wheel balancers.

## SKILLS

### Software:

- Solidworks
- MATLAB
- NI LabVIEW
- EES
- AgLeader SMS
- Microsoft Office

### Technical:

- Basic & CNC Machining
- SMAW & GMAW
- Tension & Compression Testers
- Design for Product Safety
- GD&T

## AFFILIATIONS/ INVOLVEMENT

- Engineers in Business – Student Organization **Sept. 2014 - Present**
  - Recruitment Chair & Design Team Manager
- Badger Pulling, ¼ Scale Tractor Team **Sept. 2015 - Present**
- American Society of Agricultural & Biological Engineers **Feb. 2013 - Present**