**EDUCATION**

**University of Oklahoma, Norman, Ok May 2020**

***Bachelor of Science in Mechanical Engineering***

***Deans Honor Role + University Honor Role***

**WORK EXPERIENCE**

**Meteomatics St. Gallen, Switzerland Summer 2019**

Drone Systems Design Engineer

* Calculate, design, test, evaluate drone system components & provide enterprise quality solutions
* Explore business opportunities in the American & International Market

**Advanced Radar Research Center Norman, Oklahoma Summer 2016 – Present**

Undergraduate Drone Systems Design Engineer

* Design & fabricate fully autonomous flight systems with integrated payloads for data acquisition
* Provide research professionals high quality electromechanical system solutions
* Operate equipment at remote locations around United States
* Subcontract work, provide required communication links, and overview project logistics
* Locate parts on a global scale with budget limitations of $5k-$100k

**Haliburton Non-Disclosure Projec**t **Summer 2013**

* Frac water conditioning, culture testing, sample acquisition, economics, sterile procedure development

**Construction & Landscaping Manager Summer 2008- Present**

* Utilize techniques for managing plant, fungus, animal, parasites, & waste on farm & rental properties
* Available 24/7 for emergency and technical support
* Heavy equipment operator

**Sooner Rover Team Pilot & Lead Mechanical Summer 2015 – Fall 2017**

* Provide insight for maximum performance in mechanical design, cut, weld, finish & assemble rovers
* Operate rover remotely 500 miles away for Record Breaking 1st Place Performance
* Inspire a new generation of students to tackle problems and transition team lead responsibilities

**TECHNICAL SKILLS**

Capable of operating any tool or piece of power equipment safely with a brief overview of its operation

Capable of utilizing principles of classical and relativistic physics, chemistry, fluid dynamics, thermodynamics, solid mechanics, calculus, differential equations, ethics, alternative energy, safety, and statistics in my design solutions

Can design, machine, cut, weld, bond, assemble, clean, measure, & present on professional level

Ready to Identify problems and provide multipath solution choices based on constraints to my superiors

Experience building drivelines of every respect, fully autonomous flight systems, radars, and research equipment

Experience Incorporating data acquisition systems for data driven decision making

Experience working with multicultural coworkers and vendors around the world

Built a 60MPH jetboat from scratch, 30+ UAV’s, 2 Robotic Lawnmowers, engines, vehicles, boats, & motorcycles

Experience building websites, linking phone apps & smart controls to electromechanical systems

Experience w/ 3D Printers, Co2 Laser cutters, & diode Lasers

**AWARDS & RECOGNITION**

First Place at NASA RASC-AL Robo-Ops (Pilot, Lead Mechanical, **All-Time Top Score**)

Published Author (**IEEE, ISARRA, NASA Website, OU Open Text, OU PAARD, Tulsa World**); (visit: **www.BrentWolf.com** to view)

Helped design, build, and fly OU’s first FAA Part 107 drone: Coptersonde 1

Part 107 Pilot In Command during OU’s first airspace UAV deconfliction tests

2016 NASA Space Conference Guest Speaker

University Rover Challenge 2017 Contestant

Gallogly College of Engineering Upper Division Mechanical Engineering Student

Thousands Strong Campaign (>400% funded)

Lunch Invitation to speak with Randall Stevenson (CEO of ATT)

Dinner Invitation to speak with Dr. Martin Fengler (CEO of Meteomatics)

National Honor Society

**VOLUNTEER EXPERIENCE**

Spearhead International Business Agreement for OU Radar Lab and Swiss Meteomatics

Engineering Days Staff for prospective Engineering Students