

# BRADFORD JOHNSON

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www.BradfordJ.com

## VBA Developer

*Self-employed*  
[2017 - Present]

- Building Microsoft Office solutions to improve workflows
- Using human centered design practices to eliminate harmful user errors for customers
- Creating workflows tied to ASME and ISO standards

## Engineering Project Manager

*Citadel Technologies*  
[Feb 2016 - Oct 2016]

- Improved company manufacturing, testing, and training processes
  - Decreased turnaround time to customer by 50% through automation of key points of engineering process
  - Rebuilt technical product training method and materials
- Planned and executed R&D of new products

## Project Engineer

*Citadel Technologies*  
[Jan 2014 - Feb 2016]

- Designed custom composite repair solutions based on customer requirements
- Designed and implemented test programs to qualify products for new customers
- Trained local and international customers in technical application of product
- Managed quality control of patented epoxy for all production batches
- Attended ASME Committee Meetings to continually develop industry standard
- International Travel Experience
  - Supported client outreach to new end users through technical presentations
  - Performed and managed field installations

## Project Fellow

*The Mine*  
[Sept 2014 - May 2015]

- Selected from pool of 30+ highly qualified applicants
- Drove a 4-member team to develop national expansion model for a local nonprofit.
- Created sustainable revenue models and piloted an online platform customized to engage children all over the nation

## Research Assistant

*University of Tulsa*  
[Aug 2011 - Dec 2013]

- Researched stress corrosion cracking in an automotive environment
- Developed salt water exposure test environment controlled by microcontroller
- Performed statistical analysis to extract quantitative data from ASTM tests

## Visiting Academic

*Ford Motor Company*  
[Summer 2012]

- Performed heat treatment testing on a novel sheet metal manufacturing technique
- Authored internal Ford technical report on research

## Education

### Udacity (Nanodegree '18)

#### Robotics Software Engineer

*Project based curriculum focused on a modern robotics toolset of ROS, Deep Learning, C++, Kinematics, Controls, and Computer Vision*

### University of Tulsa (M.S. '13)

#### Mechanical Engineering

*Researched stress corrosion cracking in an automotive environment. Developed a novel Arduino controlled salt water test environment.*

### University of Tulsa (B.S. '11)

#### Mechanical Engineering

*Minor in Mathematics  
Treasurer of ASME  
Treasurer of SAE*

## Key Skills

### Software

Python  
Microsoft Office VBA  
Arduino  
Abaqus for FEA  
Fluent for CFD

### Manufacturing

Manual and CNC milling  
Hand layup of fabric composites  
3D printing  
Laser cutting  
Welding

### General

ISO 9001 audit experience  
EIT  
Volunteer Bike Mechanic  
Volunteer at Tulsa Fab Lab