



**INTERACTIVE  
ENGINEERING**  
[www.IENG-inc.com](http://www.IENG-inc.com)  
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Palm Coast, FL 32137



## Jeremy D. Brown, MSME, P.E., CGC, DFE

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Jeremy is a licensed Professional Engineer, General Contractor, and a decorated military veteran. After serving 8 years in the United States Air Force, he attended Embry-Riddle Aeronautical University in Daytona Beach, FL; where he completed his Master of Science in Mechanical Engineering; graduating with honors. After graduation, Jeremy worked with Northrop Grumman Corporation where he quickly rose to the position of Principal Engineer. Jeremy went on to found Interactive Engineering, Inc. in 2020, where he now practices

Structural and Forensic engineering as well as General Contracting. Jeremy has over 17 years of total work experience, 9 of which are in construction and engineering. As an expert witness Jeremy has worked on over 600 cases providing inspections, reports, and root cause and origin analysis. Jeremy has tested experience as an expert witness both in deposition testimony and trial.

### PRIMARY AREAS OF CONSULTING

#### **Structural Engineering:**

- Ground vibration/blasting claims
- Lightning claims
- Concrete failures
- Vehicle/Tree impacts
- Wood and concrete pier foundations
- Wood, concrete, concrete block, foundations systems
- Foundation Settlement Mapping
- Wood bulkheads and concrete seawalls
- Fire damage to wood, concrete, and steel frame buildings
- Wood decks
- Screen Enclosures
- Chimneys
- Steel helical piles
- Structural and cladding wind load analysis
- Beams/Headers

#### **Roof Systems**

- Hail damage to residential & commercial roof coverings
- Wind damage to residential & commercial roof coverings
- Synthetic storm damage (Fraud)
- Roof covering defects
- Roof conditions analysis
- Water infiltration and mapping
- Roof coatings/paint application failures

#### **Building Enclosures**

- Exterior insulation and finish system (EIFS)
- Stucco cladding
- Wood-frame, concrete, concrete masonry unit (block) walls
- Fenestration Analysis (window/doors) IAW AAMA 511
- Wall penetrations

#### **Building Code Compliance**

- General construction code requirements and best practices
- Construction defects
- Structural/Civil infrastructure, roof coverings, building
- Slip resistance surface testing
- ADA/Code compliance

### LICENSURE/CERTIFICATIONS/COURSES

#### **Licensed Professional Engineer**

- |                                     |                                |
|-------------------------------------|--------------------------------|
| 1. Florida (Lic. No. 90958)         | 5. Texas (Lic. No. 150483)     |
| 2. Louisiana (Lic. No. 45435)       | 6. Colorado (Lic. No. 0065301) |
| 3. North Carolina (Lic. No. 051927) | 7. Kentucky (Lic. No. 36270)   |
| 4. Tennessee (Lic. No. 131751)      |                                |

#### **General Contractor**

- Florida (Lic. No. CGC1535968)

#### **Certifications/Memberships**

- TRI Florida High Wind Installer Certification
- American Society of Civil Engineers, Member
- Fenestration and Glazing Industry Alliance (FGIA), Professional Member

### TESTIFYING EXPERIENCE

#### **Depositions:**

1. Nicastro v. Citizens; 2021CA272
2. Rodriguez v Security First; 2020 CA 000339
3. Calveiro v. Citizens; CACE-21-003788
4. Saffran v. Universal; 2020-CA-005266-O
5. Jun Hu v. Universal; 2020-CA-011696-O
6. Jones v. Universal; 50-2021-CA-000531-XXXX-MB
7. Cardenas v. QBE; 22-62004-CIV-COHN/HUNT
8. Bazata V Citizens; 2020-CA-000192
9. Simons v. Universal; 50-2022-CA-007969-XXXX-MB
10. Barnes v. Universal; CACE-22-018228
11. Jolis v. Citizens; 2023-CC-000182
12. Sullivan v. Universal North America; 05-2022-CA-024013
13. Colvin v. Typtap Insurance Company; 2023-CA-003750-SC
14. Pena v. Citizens; 2023CA000129
15. Jetter and Pape v. TypTap; 23-CA-001521
16. De Cordova v. Citizens; 50-2023-CA-009907
17. Horneck v. Citizens; 23-CC-003597
18. Marrero v. First Protective; CAPL23-018972
19. Reicher v. Slide Insurance Company; 23-CA-007427
20. Caballero v Citizens; 2023-101857-CC-05
21. Watson v Universal; 2022-CA-000189
22. A-Team (Machodo) v Citizens; 2023-130748-CC-25
23. Rowe and Goff v Universal; 2023-CA-017574
24. Mayo v Frontline; CACE23022845
25. Sales v Citizens; 2025-CA-004479-O
26. McKannan v Citizens; 2024 CA 002862 SC
27. Flock & Company v Cypress Creek, et al.; 2024-CA-003299
28. Watkins/Rego v Citizens; 24-380-CA

#### **Trials:**

1. Newsome v. Universal; 53-2022-CA-003756-0000-00
2. A-Team (Machodo) v Citizens; 2023-130748-CC-25

## WORK HISTORY

### **Interactive Engineering, Inc.**

Owner/Chief Engineer

Mar 2021 – Current

Manage all engineering operations for the firm. I am the final technical decision for all design work and failure analysis reports delivered from the firm to the customer. I make all final engineering decisions, compare alternatives, coordinate with customers, perform on-site evaluations and building inspections in so far as to safeguard the properties under my charge. I complete structural analysis for residential and light commercial properties for projects such as building alterations/additions and new construction. I directly manage two sectors of business, Engineering and Construction.

### **Embry Riddle Aeronautical University**

Industry Advisory Board Member

Apr 2019 – Current

This is a role by appointment only. I was appointed to this role due to my academic achievement and my role in industry. I am responsible for attending a yearly meeting that provides feedback to the University on relevant industry trends and ensures the courses taught by the engineering department are relevant to the needs of the industry.

### **Northrop Grumman Corporation**

Principal Engineer (T3):

Jan 2018 – Mar 2021

Developed highly complex mechanical designs from requirements through to testing; utilizing agile principles for development efficiency. Interpret customer needs into engineering requirements. Research materials, existing components, and code requirements. Design, develop, and test products following an integrated master schedule methodology to maintain earned value contractual requirements. Proficient in ASME Y14.5 and utilization of 3D modeling software to create cost efficient parts and assemblies biased on customer requirements. Perform stress analysis using finite element analysis software. Write Test plans and Product Specifications.

Manage software team utilizing agile software development approach. Coordinate across multiple agencies to complete complex tasks. Coordinate the design, development, and implementation of new digital tools to streamline document submittal, review, and approval processes.

### **United States Air Force Reserve**

NCOIC Training (E5):

Sept 2014 – Feb 2016

Led training section for squadron. Planed and managed mission requirements. Ensured personnel remained mission ready in accordance with DOD and Air Force regulation. Conducted annual employee performance evaluations.

### **United States Air Force**

Section Manager (E5):

Feb 2013 – Feb 2014

Led a team of 20 personnel. Planed and managed mission requirements. Ensured personnel remained mission ready in accordance with DOD and Air Force regulation. Conducted annual employee performance evaluations.

Section Manager (E5):

Aug 2012 – Feb 2013

Managed mission operations for installation security during third shift. Oversaw 25 members in completing mission requirement of protecting supply aircraft, personnel, and property in direct support of Operation Enduring Freedom. Designed and implemented a program to control the random arming of Air Force members bolstering installation security protocols and increasing safety and security of Abdullah Al-Mubarak Air Base, culminating in being awarded Air Force Commendation Medal.

Quality Assurance Agent (E4):

Apr 2007 – Aug 2012

Conducted evaluations and certification process for 362 members to obtain and retain mission critical certifications for the security and continuity of over one billion dollars in United States Government assets. Ensured procedures remained within Status of Forces Agreement (SOFA) established in accordance with German national laws.

## PROJECT EXPERIENCE

### **Interactive Engineering, Inc.**

CEO/Chief Engineer: In this role I perform highly complex field inspection and failure analysis on damaged facilities to find root cause and origin, formulate a repair plan, and coordinate with trades to complete the repairs when/if necessary. I have personally performed over 600 inspections of storm damaged buildings, both on residential and commercial properties, to determine the cause, origin, and duration of damages. Additionally, I complete residential and marine construction documents and design packages, stemming from minor alterations to complete plans sets, including plan reviews and permitting. Further in this role I am responsible for the complete technical oversight of the engineering firm.

Examples include:

- Completed redesign of both a 3-bedroom and a 4-bedroom residential housing structure to update to the 2020 FBC for the Habitat for Humanity. Successfully completed permitting packages as the Engineer of Record based on new plans, leading to safe and secure housing.
- Completed custom marine boat houses designs, ensuring conformance to the 2020 FBC, as the Engineer of Record.
- Completed over 600 property damage inspections of storm damaged buildings and other structures from wind, hail, and hurricane throughout the State of Florida.

### AWARDS & DECORATIONS

#### **Military Medals:**

Air Force Commendation Medal First Oak Leaf Cluster  
Air Force Commendation Medal  
Air Force Achievement Medal

Spangdahlem Air Base, Germany, 2015  
Abdullah Al-Mubarak Air Force Base, Kuwait, 2013  
Joint Base Balad, Iraq, 2009

#### **Academic Honors:**

Embry Riddle Aeronautical University, MSME, Distinction  
Embry Riddle Aeronautical University, BSME, Cum Laude  
Non-Commissioned Officer Training School  
Airman Leadership School  
Security Forces Apprenticeship School  
Basic Military Training

Daytona Beach, FL, 2017  
Daytona Beach, FL, 2017  
Baumholder Airfield, Germany, 2012  
Spangdahlem Air Base, Germany, 2010  
Lackland Air Force Base, Texas, 2007  
Lackland Air Force Base, Texas, 2007

#### **Recognitions:**

Gen-2-Gen Mentorship Award  
Gen-2-Gen Mentorship Award  
Non-Commissioned Officer of the Year 52<sup>nd</sup> Security Forces Squadron  
Airman of the Quarter, 52<sup>nd</sup> Mission Support Group 4<sup>th</sup> quarter  
Airman of the Quarter, 52<sup>nd</sup> Security Forces Squadron 3<sup>rd</sup> and 4<sup>th</sup> quarter

Northrop Grumman Corp. MADCOE, 2020  
Northrop Grumman Corp. MADCOE, 2019  
Spangdahlem Air Base, Germany, 2011  
Spangdahlem Air Base, Germany, 2010  
Spangdahlem Air Base, Germany, 2010