

29E6

Structural  
Engineering Firm

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Our common goal

**SUPPLY STRUCTURAL ENGINEERING TO PROTECT THE PUBLIC**

In doing so

**WE PROVIDE THE MOST EFFICIENT DESIGN**

How do we accomplish this?

**WE LISTEN**

By way of the proprietary **29E6-STEP PROCESS** we provide the most efficient and safe building design - maximizing time, revenue, profit, and enjoyment in working with all partners. In our structural design charette **WE LISTEN** to identify not only goals but all key factors effecting the scope of work. The unique collaborative discovery addresses potential concerns early on and outlines a clear direction to define expectations from 29E6 while also examining budgetary concerns.

Rebranded in 2017 as 29E6 the firm was originally founded in 2010 by Andy Richardson, Principal and Managing Professional Engineer. The company, employing full and part-time individuals, has enjoyed as much as 200% project increase rate over the last several years. The growth is attributed to excellent service and partner satisfaction. 29E6 serves the greater southeast region – and projections for continued success broaden into the Pennsylvania market – in the following market sectors: Commercial, Hospitality, Government, Medical, Residential, Municipal, Industrial, and Historic Preservation.

Like a larger organization, 29E6 brings the expertise, manpower and adaptability to every project. A pursuit for personal client attention and integral quality control provides excellence in all they do. 29E6 employees enjoy an atmosphere steeped in creativity and ingenuity, nurturing individual growth and opportunity.



Nearly 25 years in the structural engineering industry, Andy has wide exposure across various applications and highly specialized technical expertise. His diverse resume provides experience in nearly any material, building type or structure. Living in the Lowcountry of South Carolina since 1998, he has acquired expertise in both hurricane design as well as seismic design of buildings. Over the past 10 years, Andy founded and operated his engineering firm and provided engineering education for the PE Exam. In 2017, Andy rebranded his company as 29E6. A combined passion for mentorship and excellence in design, Andy developed a process that unmistakably, but not only, provides the best design with every efficiency it is also intended to be utilized by a team of engineers. Since that time, the vision is to grow and expand 29E6 so architects, contractors, and fabricators everywhere can benefit from the 29E6-Step Process and its streamlined results.

Andy enjoys spending time with his lovely wife and six kids, who range in age from 20 to 6. He also enjoys spending time with his church family as well as running, playing frisbee, and learning ballroom dance.

## Affiliations

American Society of Civil Engineers (ASCE), Structural Engineering Institute (SEI), Structural Engineering Association of SC (SEA of SC), NCEES Council Record

## Licenses and Certifications

ARPE No. 16069, FLPE No. 91363, GAPE No. 031369, GASE No. 001063, NCPE No. 036442, OHPE No. 86872, SCPE No. 22824, TN No. 124016, NCEES Council Record Civil PE Exam (2003), Structural PE Exam (2005)

Licensed in: AR, FL, GA, NC, OH, PA, SC & TN.

## Engineering Education

**Ultimate Civil PE Depth Review Courses** - The Ultimate Civil PE Depth Review Courses are the #1 resource for passing the civil engineering exam. These courses are an on-demand review covering all five sub-disciplines of the PE Exam.

**Professional Development Lunch and Learn Seminars** - Developed and taught a number of continuing education and 'lunch and learn' seminars to architects and engineers alike to enrich their education in technical areas such as building code changes, mass timber, and wind load provisions.

**Ace the PE Video Series** - Creator of an on-demand video series helping prepare students for the PE Exam. The series covers the five sub-disciplines of civil engineering and provides supplemental content to live courses and the student's self-study activities. The course was hosted by PPI from 2015 to 2019 and then by Kaplan publications until 2020.

**Live Online PE Exam Review Course** - Online instructor for a Live PE Exam Review Course covering the five sub-disciplines of civil engineering. Provided the first online course of its kind (2012-2017) with excellent reviews from students; the course was hosted by the popular publisher of the Civil Engineering Reference Manual, PPI.

**Ace the PE Exam** - Website and podcast provided information and resources to prepare for and pass the PE Exam (2013-2015).

## Publications

**Theory and Practice of Steel Structures; Design to Eurocodes with Introduction to U.S. Standards**, an update to structural Eurocodes. Provided a review and update to the book comparing the design of steel structures in the American Institute of Steel Construction (AISC) codes to Eurocodes. (2012)

**Civil Engineering Solved Problems** - Provided update to the structural chapters for publication to Civil Engineering Academy. (2009)

**Civil Engineering Reference Manual** - Provided update of masonry chapter to Civil Engineering



Andy  
Richardson

Professional Engineer  
29E6 Principal

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Academy for conformity to the 2009 International Building Code. (2010)

## Education

Clemson University, Clemson, SC

Bachelor of Science in Civil Engineering, Magna Cum Laude, 1998

Graduated with Honors

## Featured Projects:

**Hilton Head Beach House** - Hilton Head Island, SC  
Innovative, modern 10,000 sf coastal home with CLT wood decking system. At the time of construction this was the first residential project on the east coast utilizing new product material, CLT; considered to be one of the first CLT projects in the US.



Hilton Head Beach House

**TRU by Hilton** - Beaufort, SC

Four-story wood-framed hotel with walls and roof of traditional light-framed, wood construction. Steel used to span large areas at ground level. Situated relatively close to possible seismic activity, the project had potential for a modest amount of liquefaction. Structural mitigation was utilized in order to alleviate this occurrence.

**Bluffton Centre** - Bluffton, SC

Multi-office medical facility serving growing demand in larger Bluffton region. Three buildings utilized steel construction framework with open web bar roofing joists. The lateral system, steel moment frames (SMF), allowed maximum flexibility of architecture for the current design as well as future modifications. Through keen understanding of codes we were able to utilize ordinary moment frames (OMF) in lieu of intermediate moment frames (IMF) - a small difference with big cost savings through efficient engineering.

Ohoppee Match Club

**Ohoppee Match Club** - Cobbtown, GA

Completed in 2018, multi-building golf complex featured a two-story, exposed, heavy wood-framed clubhouse with steel aspects. Close collaboration with architect, Thomas & Denzinger, was a key part of the structural design; working to accomplish aesthetic goals of the visible connections as well as the structural function.

**Erie Veterans Health Administration** - Erie, PA

Addition to veteran's hospital in Erie, PA, constructed of steel and concrete; steel joist with composite floor and metal roof deck(s). The proposed project will include a new addition to the first floor of existing (main) hospital, providing approximately 10,000 sf of additional area. The addition will be located on the front of the building extend east on one side and towards the west on the other, with the west side expansion extending to existing atrium. A portion of the existing building, which connects with the proposed expansion, will be remodeled as part of this project, and this new connection will serve as an extension of the existing Atrium.



**Island Recreational Center** -

Bluffton, SC

Provided delegated design services for long-span steel trusses on a multi-use community recreational center. Ours was the role of fabricator's engineer to meet the requirements set forth by the Engineer of Record. The fabricator was Macuch Steel of Augusta, GA, and RISAs was software used for analysis.



Island Recreational Center

...continued

Andy  
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Professional Engineer  
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29E6  
is structural engineering



## Corbin Collier

Professional Engineer

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Corbin has over 6 years of design engineering experience specializing in heavy steel fabrication for the government and marine industries. Due to his extensive exposure in the fabrication shop environment, Corbin implements a detailed design approach in his daily roles. Throughout his career he has been exposed to a range of responsibilities including manufacturing engineering, quality engineering, engineering lead, proposals lead, and project management.

Corbin enjoys spending time with his family and friends. He can often be found out on the water fishing and wakeboarding or exploring the outdoors.

### Affiliations

American Institute of Steel Construction (AISC), American Society of Mechanical Engineers (ASME), American Welding Society (AWS), NCEES Council Record

### Licenses and Certifications

ALPE No. 51203, AZPE No. 75458, FLPE No. 93143, GAPE No. 044369, KYPE No. 37255, NCPE No. 0553450, OHPE No. 87444, OKPE No. 33192, SCPE No. 36374, TNPE No. 126060, NCEES Council Record Mechanical PE Exam (2018)

Licensed in: AL, AZ, FL, GA, KY, NC, OH, OK, SC & TN.

### Publications

Tool Material Degradation Due to Friction Stir Welding of Aluminum Alloys – A study to investigate the friction stir welding (FSW) tool material degradation factors due variation in tool material properties and the effect of an aluminum diffusion wear mechanism on three different FSW tool material when exposed to various welding temperatures and times. (2015)

### Education

University of South Carolina, Columbia, SC  
Master of Science in Aerospace Engineering, 2015  
Bachelor of Science in Mechanical Engineering, 2014

### Featured Projects:

The Digby - Savannah, GA

New mixed-use development in the heart of downtown Savannah. High-end, five-story commercial building dedicated to short-term vacation rental with rooftop bar and ground floor restaurant/retail space. Proximity to the existing adjacent building was one substantial aspect of the design.

The Digby



Scott's extensive work experience spans exposure to government, commercial and retail, renovations, residential, civil and structural forensics and civil site sectors. With nearly 25 years in the greater construction and building industry, Scott started from the ground up in the construction field then on to construction management. Civil and structural formal education and training widened his exposure to include: structural and field engineering, forensics and expert witness, quality assurance and construction quality control. Scott's breadth of knowledge and understanding of the industry is beyond compare.

## Licenses and Certifications

SCPE No. 25127, OSHA Training in Construction and Industrial Safety (2010/2011)

Licensed in SC.

## Education

Clemson University, Clemson, SC

Masters of Engineering, 2002

Bachelors of Science in Civil Engineering, 2001

## Featured Projects:

Scott provides, in part, quality assurance design services, special inspections, and has a keen eye for construction supplying a critical capacity for our construction support component. While having touched all our market segments, highlights of some of his work would be found in the following projects.

**The Breakers** - Hilton Head Island, SC

Provide professional review and authorization on design wind speed and capacity for awning coverage at ocean side resort.

**Statesville Courthouse** - Statesville, NC

Provided special inspections for exterior stair replacement.

**TRU by Hilton** - Beaufort, SC

Provided structural design services, construction documents and services, and site visits for national hotel chain. The four-story wood-framed building used steel to span large areas at ground level.

**Bluffton Centre** - Bluffton, SC

Provided special inspections and construction support for a multi-office medical facility serving growing demand in larger Bluffton region.



TRU by Hilton



Bluffton Centre

Dwayne S.  
Robinett

Professional Engineer

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## Taylor Durtschi

Structural EIT

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Taylor spent a summer in training at 29E6 and has become a superior asset to 29E6. She is a strong EIT having caught on quickly to 29E6 best process and procedures. Taylor is high impact on the teams "Right. Reviewable. Repeatable." implementation tactic across both small and large, and commercial and residential applications. She designs for all market segments but has a special talent for residential wood structures that are affected by the lowcountry's high wind load and seismic activity.

Taylor also works on building the 29E6 training video library for onboarding new employees. She's crafted a digital resource with step-by-step, "how to's" of 29E6 procedures and acquiring ASCE references. Taylor's comprehension of gravity and lateral wind loads ideally suits her to identify the forms and processes for doing these calculations efficiently. And, her love for teaching shines through as well!

As far as other teaching ventures, Taylor runs a tutoring business called The Bridge Tutors. The Bridge Tutors is committed to providing quality tutoring and academic support to ALL students, striving to build students' self-confidence and help them realize their potential. The Bridge Tutors offers online one-on-one tutoring services for all ages in math, engineering and science.

In her free time Taylor enjoys reading a good book, hanging out with her dog Aussie, and spending time with family. She has 3 brother, 3 sisters, and 11 'niblings' (nieces and nephews). Taylor is also pursuing a 2nd bachelor's degree in psychology and loves sports: soccer, football, and tennis.

### Engineering Education

Utah State University, College of Engineering Tutoring Center – basic to graduate-level structural engineering tutoring courses. Emphasizing complex to conceptual learning techniques.

### Education

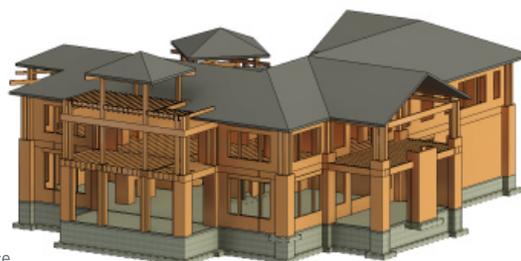
Utah State University, Logan, UT  
Master of Engineering in Civil Engineering - structural emphasis, 2019  
Bachelor of Science in Civil Engineering - structural emphasis,  
Summa Cum Laude, 2018

### Featured Projects

Spanish Wells Residence - Hilton Head Island, SC  
New, contemporary house on Hilton Head Island, SC. A number of unique conditions and spans that make this house interesting requiring detailing and design structurally. This includes some steel frames for gravity and lateral requirements. First floor - Dimensional lumber, second floor - 14" deep floor TJI's. The house is elevated to meet flood requirements, and the first level constructed on 8" CMU walls. The interior supports are 16" CMU piers with (4) #5 vertical bars and ties at 8" on center. The piers bear on a continuous 16" deep x 24" wide grade beam with (2) #5 bars top and bottom. The roof is framed with engineered roof trusses at 2'-0" on center.



Spanish Wells Residence



is structural engineering



## David Naus

Professional Engineer  
(retired)

David has over 42 years of experience in engineering design, the last 21 years of which have been in design and construction support, including: project management, project engineering, and civil/structural/architectural design on projects ranging from the UPF, HEUMF, F-Area tank farm services upgrades, TRU waste characterization and processing and mixed waste containment building, and site infrastructure upgrades for the accelerator production of tritium.

Prior to that, David spent many years as an engineering manager in TN and SC offices handling projects for Title I - Title II of the Uranium Processing Facility. For over 13 years David served in the president role at Southern Engineering Services, Inc., and Zimmerman & Naus, Inc., and since has also worked with various clients as a structural engineering consultant.

Currently, David adds his immense knowledge base and career experience to the 29E6 team in a part-time role.

### Licenses and Certifications

Florida Professional Engineering License (1983) - not active

Georgia Professional Engineering License (1991) - not active

South Carolina Professional Engineering License (1991) - not active

### Education

University of Miami, Coral Gables, FL  
Bachelor of Science in Architectural Engineering, 1979

Outstanding Graduating Senior Award

### Featured Projects:

Corner Perk - Bluffton, SC

Designed a 4600 sf (primarily) wood-framed construction with roof wood trusses and second floor steel bar joists.

Pinewood Fire Station 1942 - Beaufort, SC

Addition and renovation to include redesign of steel stairs. Due to the potential for scour and the soil conditions, a deep foundation system is required with a helical pier system being recommended.

Atlanta Veterans Administration - Atlanta, GA

Involvement included connection design and design calculations for this VA.





**James  
Ellis**

Structural Designer

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With both military and construction in his background and work experiences, James's varied skill set encompasses: management, training, organizational foundation for remedying troubleshooting and a keen aptitude for preventative maintenance and inspections methodology. A former Marine, James worked in general construction and quality assurance, then as a structural mechanic at both Gulfstream and Lockheed Martin. These positions developed James's work experience and propelled him to structural designer at 29E6. James's fluidity and expertise in Revit is an essential role in drafting projects for client approval across all market segments at 29E6.

James has been married to his beautiful wife, Emily, for almost two years. They have two daughters, Charity and Nora. James enjoys spending time with his family, playing frisbee and basketball. He also spends time doing projects around the house and is very involved with his home church and his church family.

## Education

Liberty University, Lynchburg, VA  
Continuing studies.

United States Marine Corp, Beaufort, SC, 2014-2018

## Featured Projects:

Typically, James provides the 3D Revit modeling and design and facilitates communication across duties. James is astute in reviewing and processing charette notes and interpreting data from architectural plans for all projects.

### Port Royal Residence - Port Royal, SC

Southern bungalow in the quaint village of Port Royal, SC. Designed a one story residence over crawlspace with wood-framed trusses (attic) and flooring. Concrete slab and "superior wall" system. (in progress)

### Fripp Island Residence - Fripp Island, SC

Two-story home on CMU piers.

### Fripp Island Recreation Center - Fripp Island, SC

Renovation and addition, including multiple level slabs.



Over 20 years experience in structural design, Travis has proven performance in a wide variety of disciplines, software and work environments. Simultaneously raising his family and working full-time, Travis attended school in the evenings working toward his goal to become a well rounded drafter and modeler; earning three Associate's degrees and five certifications in engineering, architectural and computer-aided design.

Functioning as lead, Travis managed multiple teams of drafters in a fast-paced, rapidly changing setting. These roles required excellent communication and organizational skills, complex file and database management, implementation of drafting standards and creation of typical details library. He's had specialized focus utilizing SolidWorks parametric modeling/AutoCAD drafting (for military vehicles). Proficiency in standard applications such as Inventor & Revit, and very complex design tasks in the operation and application of CAD equipment round out Travis's training. Travis's industry exposure includes: consultant coordination and quality assurance, design project involvement to determine detailed BIM model specs, scope of design and choosing initial parameters. He develops signed construction documents including civil and structural requirements necessary for architect and contractor, inclusive of: foundation, framing & site plans, isometrics and structural sections and details for a wide variety of projects.

Travis has a broad understanding of assembly and design with various construction methods, such as: structural, concrete, conventional lumber, metal stud, CIP, steel joists, CMU, conventional slabs and retaining walls. He has also developed a strong working knowledge of design industry workflows, production cycle and priorities while assisting with various market segments: commercial, religious, residential, education, hospitality, medical and event venues. And he has exposure to most every structural design element and material: hollowcore, concrete, CLT, steel, CMU, wood, light gage, post-tension.

At 29E6 Travis has broadened his support to the needs of all their markets but has special interest in the housing studio.

Travis has lived in the Charleston area all his life and has three children: Kailynn, Zachary, Rory. His children and family are his passion, alongside Carolina Panthers football! Travis and girlfriend, Julie, adore Chaos and Mayhem (felines), Waverly (canine), and Skittles (emydidae, aka a red-eared slider turtle). Travis loves kayaking, video and board games, football, motorsports, and MMA; having recently earned black belt in American Freestyle and previously a black belt in Tae Kwon Do. He also enjoys DIY improvements around the house, roadtrips, and hosting a huge annual Halloween party.

## Education

Trident Technical Collete, North Charleston, SC  
Associate of Applied Science in Engineering Design Graphics, 2011  
Associate of Arts in Art History, 2007  
Associate of Science in General Science, 2006

## Featured Projects

Chechessee Golf Center - Okatie, SC

Single story wood frame building with roof trusses to include vast 28' x 12' openings to accommodate sheltered lessons. The building is in a Class C Wind Zone.

Wendell Travis  
Bennett

Structural Designer

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Jennifer has administrative management background with over 15 years serving executives in the paper, telecommunications, healthcare, and marketing industries.

Focused on keeping Andy and the 29E6 team organized with administrative & project management needs, Jennifer is the conduit behind the scenes keeping all arms of the company in collaborative motion. She ensures the efficiency of inter-office needs and runs point on coordinating calendars, agendas and scheduling meetings. She manages human resources services across the remotely-located southeast offices including payroll, employee onboarding, policy and procedures. Jennifer also handles accounting responsibilities, including: preparing reports, billing, accounts receivable and accounts payable, while also lending support to both the marketing and IT facets of the company.

Jennifer resides in Nashville with her husband, 2 kids - Braden & Adalyn, and 3 dogs. Much of her spare time is spent running her children to practices or cheering one on at baseball, softball or soccer games. If there is free time left, she loves to do house projects, bowl and is a big fan of her hometown Wisconsin Badgers or anything red!

## Education

Upper Iowa University, Fayette, IA  
Bachelor of Science in Business Management, 2003

## Featured Projects:

Through the back side of the machine, Jennifer touches every project facilitating its seamless progress.

Jennifer  
Fox

Account Manager

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815 823 2553

Jonathan comes to us from a varied background in Electrical and Computer Engineering. He spent five years on active duty with the United States Marine Corps as an Avionics Technician in Beaufort, SC, where he became friends with James Ellis, and eventually Andy Richardson. After his separation from the service, he spent the next four years working in both the high and low voltage electrical fields, and in particular low voltage fire and security alarm applications. He has always worked to stay sharp on computers and is currently pursuing a degree in Information Technology from Liberty University Online.

At 29E6, Jonathan primarily works in an infrastructure support role as our main IT tech, filling the following roles:

- Microsoft 365 Business Admin
- Google Workspace Admin
- Jira Work Management Admin
- Physical IT Asset Admin
- Microsoft Power Automate Manager

Jonathan also works as our primary Continual Process Improvement agent, analyzing processes, identifying constraints, and seeking solutions for better productivity. He is always looking for ways to make work easier, more enjoyable, and more productive for everyone.

Jonathan works remotely from his home in Bryson City, NC, with his wife Jessica and their two boys (Mark and Ezekiel). He spends most of his free time outside with his family, or visiting with his parents at his boyhood home (just 20 minutes away), all under the shadow of the beautiful Blue Ridge mountains.

## Education

Liberty University, Lynchburg, VA  
Continuing studies in Information Technology, 2021 - present

United States Marine Corp, Beaufort, SC, 2013-2018  
United States Marine Corp Reserves, 2018-2021

Jonathan  
Engle

IT & Operations

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