



MICHAEL STALEY, P.E.

Mr. Staley is a graduate of Norwich University with a Master of Civil Engineering Degree with a specialization in structural engineering, a Master of Business Administration from University of Phoenix, and a Bachelor of Arts in Physics and Mathematics from Thomas Edison State University. Mr. Staley's background includes responsibility for the technical design and construction document preparation for various structures including commercial, industrial, aerospace, theme park, and residential.

Mr. Staley has experience performing cause and origin failure analysis, investigation, and forensic engineering pertaining to structural systems including residential, commercial, and industrial structures, soils, retaining structures, concrete, masonry, steel, light gauge steel, roof diaphragms and lateral systems, and building codes.

Mr. Staley is also trained to assess roof damage to most major types of residential steep slope roofs, including wind and hail, and can evaluate installation, weathering, maintenance, mechanical damages and repair costs of asphalt composition, wood shingle/shake, concrete, clay tile, and asbestos-fiber cement roof coverings.

EDUCATION

M.Eng., Norwich University

MBA, University of Phoenix

B.A. in Physics and Mathematics, Thomas Edison State University

PROFESSIONAL LICENSES AND CERTIFICATIONS

Registered Professional Engineer, Structural I, Florida #70921

American Society of Civil Engineers, Member #321066

PROFESSIONAL PRACTICE

Aerospace, Industrial and Theme Park Design, Structural Engineering

Engineering Education Project Based Learning Pathway Innovations

Engineering Management Project Management Earned Value Management

Affordable Housing, Tiny Homes, Code Compliant Tiny Homes

Modular Construction, Manufactured Construction

Residential Design and Engineering

Forensic Engineering Inspections and Evaluations

WORK EXPERIENCE

U.S. Forensic

July 2023 – Present

Civil Engineer

- Conduct investigations to determine the cause of accidents and failures.
- Perform on-site inspections and collect evidence such as photographs, samples, and measurements.
- Analyze evidence and interpret data related to forensic investigations.
- Write clear and concise reports detailing investigation findings and conclusions.
- Provide expert witness testimony in legal proceedings.

Ferris State University

July 2020 – July 2023

Dean, College of Engineering Technology

- As the Academic Dean, provided vision, strategy, leadership and direction in the planning, development, and deployment of all programs for four academic schools within the college.
- Taught and conducted research in engineering, engineering technology, accreditation, and credentialing.

Seminole State College of Florida

November 2003 – June 2020

Associate Vice President and Dean, School of Engineering, Design, and Construction

- As the AVP and Academic Dean, provided vision, strategy, leadership and direction in the planning, development, and deployment of all programs within the division.
- Taught and conducted research in engineering, engineering technology, accreditation, and credentialing

Senior Structural Engineer – Part Time

2010 – Present

- Provided professional engineering services to clients from forensic engineering, insurance inspection, residential and commercial structural design.
- Provided the chief engineering for a start-up modular design-build manufacturing company.
- Provided the structural engineering for several T.V. episodes of Zombie House Flipping.
- Designed the first code compliant tiny house for a disabled veteran. The build was filmed with Zach Giffin of the Tiny House Nation T.V. show.

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Jacobs Engineering

1995 – 2003

Principal, Eastern Region

Manager of Projects

1999 – 2003

- Served as senior business leader within the eastern region of the United States for the aerospace and theme park market, with the primary objective to achieve the business goals of the organization by identifying, capturing, and delivering projects.
- Created a PMO to support the project managers within the eastern region market sector.

Project Manager

1997 – 1999

- Managed projects and programs, primarily in the aerospace & theme park market sectors, ranging from \$5M to \$100M.
- Maintained responsibility for all aspects of the project planning, mobilization, and monitoring.
- Controlled project execution and delivery of value to clients and stakeholders. See representative listing of projects and descriptions at end of resume.

Engineer / Engineering Lead

1995 – 1997

- Maintained design responsibility for numerous aerospace & theme park projects.
- Provided design documents, specifications, and calculations for discrete projects and programs.

RESEARCH, PAPERS, AND PRESENTATIONS

Structural Defect by Soil Movement Research:

Soil movement beneath a home's foundation is the leading cause of structural damages to homes in the U.S. Active soils blanket more than 50% of the country and are responsible for more property damage to homes than floods, earthquakes, hurricanes, and tornadoes combined. 25% of all new homes ultimately suffer from some type of structural distress. Soil movement surrounding a home's foundation causes more than 80% of structural defects, and framing-related issues cause the remaining 20%.

Mr. Staley's current research published by the American Society of Civil Engineers Forensic Congress 2024 is regarding the use of protocols for consistent outcomes that reduce type I and type II errors in the initial structural evaluation of structural defect by soil movement. Mr. Staley and his co-authors review the existing guidance documents and introduce a new n-dimensional tool to help integrate and evaluate the qualitative and quantitative data collected. The research uses the case study approach developed from past projects.

Presentations/Papers:

- ASCE Forensic Engineering Congress 2024. Forensic Evaluation of Residential Foundations Experiencing Differential Movement: A Case Study Approach to the Application of Engineering Judgement. November 1-4, 2024. Michael Staley, Tan Qu, Michael Holden, Daniel Packer. Accepted for Publication.
- IRNOP Boston University 2017 Conference. Limit State Earned Value Analysis Impact on Project Management Decisions. June 11-14, 2017. Michael Staley.
- American Association of Community Colleges (AACC) Annual Convention. New Orleans, LA. "Project Based Learning Creating a More Work-Ready Graduate" April 22, 2017. Michael Staley.
- IEEE ICCST 2016 Conference. Limit State Earned Value Analysis Impact on Network Security Project Management Decisions. October 24-27, 2016. Michael Staley.
- Qu, T., Staley, M., & Sun, W. Eye Gaze Tracking Technology Application in Mobile Computing Platform Input Mechanism Study. Full_Papers/198-276.pdf
- NASA 44th Space Congress. Earned Value Management: Identifying Hidden Project Performance Issues. May 24-26, 2016. Michael Staley.
- Cornell University, College of Engineering Lecture. Earned Value Management: CPI Stability and Hidden Project Performance Issues. April 2015. Michael Staley.
- Interservice/Industry Training, Simulation and Education Conference (I/ITSEC) 2014 Workshop December 5th, 2014. Presented EVM 3351 Applied Earned Value Management 4 hour Seminar.
- Project Management Institute Research and Education Conference: Doctoral Colloquium 2014. I presented my proposed doctoral research topic to a panel of distinguished faculty from around the world and received valuable feedback.
- Southern Association of Colleges and Schools – Commission on Colleges (SACS COC) Annual Conference December 7-10th 2013. CS-173 "Faculty Qualifications and the Workforce-Oriented Baccalaureate." Christine Broecker and Michael Staley.
- National Science Foundation – Advanced Technological Education (NSF-ATE) Principal Investigator's Annual Conference. October 23-25th 2013. "Co-Taught Dual Enrollment as a Strategic Initiative", Michael Staley.
- High Impact Technology Exchange Conference (HI-TEC). July 21-24th 2013. Panelist on obtaining NSF ATE funding.

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- International High Performance Building Conference. June 19-21st 2013 Lansing Michigan. Concurrent Session "Strategies for Increasing Enrollments and Completers", Michael Staley and Jesse Kamm.
- UCF CE at NASA Kennedy Space Center – Institute for Space Studies Project Financial Management: Earned Value Analysis. October 2009.
- UCF CE at NASA Kennedy Space Center – Institute for Space Studies PM Basics: Scope, Schedule, Budget & Baselines. March 2009.
- National Science Foundation, Advanced Technology Education (ATE) National Conference Washington DC, October, 2006. Presented paper on ATE Grant Findings and Industry Education.