

J. Bret Taylor, PE SE FMPC Aff.M.ASCE

CURRICULUM VITAE

June, 2019

PERSONAL DATA

Name: J. Bret Taylor

Marital Status: Married

Residence: Bradenton, Florida

PROFESSIONAL EDUCATION

North Carolina State University, Bachelor of Science in Civil Engineering (BSCE 1991)

PROFESSIONAL EXPERIENCE

June 2017 – Present: Forensic Engineer/Senior Consultant
GCI Consultants, LLC, West Palm Beach, Florida
Building envelope consulting and engineering firm

March 2017 – Present: Principal Engineer
Building Engineering, Investigation + Restoration, LLC,
Bradenton, Florida
Engineering firm focusing on Commercial and Residential Repair,
Restoration, & Forensic Engineering Services

April 2016 – March 2017: Principal Engineer
Williams Building Diagnostics, LLC, Bradenton, Florida
Architectural & Engineering firm focusing on Commercial and
Residential, Building Envelope, & Forensic Engineering Services

April 2015 – April 2016: Senior Engineer
Slider Engineering Group, Sarasota, Florida
Engineering firm focusing on Commercial and Residential
Structural Engineering, & Forensic Engineering Services

August 2000 -April 2015: Principal Engineer
Site Structural, PC, Raleigh, North Carolina
Engineering firm focusing on Commercial and Residential Repair
& Restoration, & Investigative Structural Engineering Services

March 2009 – March 2010: Chief Engineer/Project Manager/Advisor (CSSP)

- Lockheed Martin (Pacific Architects and Engineers Group),
Rosslyn, Virginia
PAE is a wholly-owned subsidiary of Lockheed Martin Corp.
(acquired in 2006); specializes in expeditionary construction,
logistics, operations, maintenance, and training; customers include
government (U.S. and foreign) and commercial entities
- July 1999 – July 2000 Contract Engineer
Various Firms, Raleigh, North Carolina
Civil Engineering design firms focusing on Commercial and
Residential site development
- July 1998 – June 1999 Marketing Engineer
Synthetic Industries, Chattanooga, Tennessee
Geotextile manufacturing company
- March 1996 – June 1998 Project Engineer
VSL Corporation, Raleigh, North Carolina
Civil/Structural/Special Projects Engineering firm focusing on the
post tensioned concrete and mechanically stabilized earth markets
- January 1994 – Dec. 1995 Staff Engineer/Designer
SIG Structural and Planning Engineers, Berlin, Germany
Civil/Structural Engineering design firm focusing on Commercial
and Residential markets
- February 1992 – Dec. 1993 Transportation Engineering Associate
North Carolina Department of Transportation, Raleigh, North
Carolina
All aspects of Civil engineering related to transportation
infrastructure
- November 1990 – Jan. 1992 Selected Professional Assignments
Research Assistant
North Carolina State University, Raleigh, North Carolina
Research for high strength concrete

PROFESSIONAL SUMMARY

Mr. Taylor has over 27 years of experience in civil and structural engineering, design, construction, and restoration. This includes investigation of commercial, industrial, and residential buildings for attorneys, insurance companies, and property owners. Mr. Taylor's investigation expertise includes cause and origin (C&O) investigations, and expert witness representation, for horizontal and vertical structures to address various issues such as: **Design:** design errors, omissions, and standard of care, building envelope water intrusion and damages, storm drain system design and maintenance failures, roof drain system design and maintenance

failures; **Building Envelope:** fenestration (wood, aluminum, vinyl, and composite doors and windows) installation issues such as code compliance, anchorage, flashing and waterproofing, and water testing. Roofing installation and code compliance issues. Siding installation and code compliance issues. **Construction:** building code violations, retaining wall failure, code compliance issues, construction defects and poor workmanship, temporary shoring and construction works failures; **Storm Damage:** catastrophe response, wind, tornado, and/or hurricane damage, hail damage, flood/storm surge damage, tree strikes, lighting strikes; **Geotechnical/Environmental:** fire damage, foundation settlement/heave and failure, expansive soils evaluation, pest infestation damage, mold growth, wood destroying fungal damage; **Accidents:** construction accidents/collapse, vehicular impacts; **Maintenance:** plumbing, roof, and building envelope leaks, and lack of maintenance of various items; **Miscellaneous:** structural repair design, property condition assessments, primary and secondary structural components damage, degradation, and failure, wear and tear, and product liability.

Mr. Taylor has also performed design development, structural analysis, and detailed design for commercial, industrial and government buildings, and residential structures.

In addition to being a licensed Professional Engineer (PE), Mr. Taylor also holds the Structural Engineer (SE) credential. The SE credential is held by very few Professional Engineers, especially on the east coast, and signifies that he has passed both the Structural I and Structural II 8-hour examinations over and above the standard 8-hour Civil Engineering PE examination.

SELECTED PROFESSIONAL ASSIGNMENTS (Forensic Case list available upon request)

A complete list of professional assignments is available upon request

CONTINUING EDUCATION/TRAINING

AAMA – InstallationMasters® Replacement Accredited Instructor Training

RCI – Litigation Support Services for Building Envelope Experts

CSE – Dealing With the Challenges of Mid-Rise Wood Frame Construction

RCI – Building Envelope Technology Symposium

AAMA – Installation Masters Course

AAMA – Fenestration Masters Course

ACI – Externally Bonded FRP Systems for Strengthening Concrete Structures, Part I

ACI – Externally Bonded FRP Systems for Strengthening Concrete Structures, Part II

ACI – Guide for the Design and Construction of Structural Concrete Reinforced with FRP Bars

ACI – Guide to Design and Construction of Externally Bonded Fabric-Reinforced Cementitious Matrix (FRCM) Systems for Repair and Strengthening Concrete Structures

ACI – Introduction to the Concrete Repair Code (ACI 562)

ACI – Rehabilitation of Structures with Reinforcement Section Loss

ACI – The Reorganized ACI 318-14: Benefits – Rationale - Availability

ACI – Installation of Embedded Galvanic Anodes (RAP 8)

SunCam – Ethics for US Engineers

SunCam – Laws & Rules with Ed Bayo

SunCam – Practical Forensic Engineering Property – Part 1

Foundation Technologies, Inc. – Chance Helical Piles & Tieback Design
Red Vector – Globally Harmonized System Overview
Hilti – Advancement in Adhesive Anchor Technology and Installation Training
PDHonline – Petrographic Analysis of Concrete Deterioration
PDHonline – Concrete Repair – Selection of Repair Options
PDHonline – Florida Laws and Rules Course for Professional Engineers
SunCam – Forensic Engineering Part A
SunCam – Forensic Engineering Part B
ASCE – Structural Design for Bomb Blast Loads and Accidental Chemical Explosions
(Buildings and Industrial Facilities)
RCI, Inc. – Roof Drainage Design
RCI, Inc. – Roofing Technology and Science I & II
Red Vector – Water Supply Engineering
APA – Design Solutions with Engineered Wood
Halfmoon – Law of Construction Defects and Failures
NCSU – Construction Defect Claims and the General Liability Policy
NCSU – Building a High-Performance Company
NCSU – Practical Principles for Evaluation of Concrete Strength and Application of Non-
Destructive Methods for Concrete Structures (NDT)
NCSU – Rainwater Harvesting
NCSU – What Designers Should Know About Floor Coverings
NCSU – Residential Green Construction: What Designers and Owners Ought to Know.
NCSU – Natural Disaster Resilience in Residential Construction
NCSU – Structural Rehabilitation Design for Sewers and Drains
NCSU – Fiber-reinforced Polymer Strengthening of Existing Reinforced Concrete
PDHonline – Concrete Repair – Selection of Repair Methods
PDHonline – Petrographic Analysis of Concrete Deterioration
RISA 3D – Basics of Structural Modeling
RISA 3D – Advanced Structural Modeling
RISA 3D – Dynamics/Response Spectra Analysis
Research Assistant – Strategic Highway Research Program, NCSU
Graduate level soils engineering course – NCSU
Foreign Contract Engineer – 3-month immersion course in German
Learned design, installation and maintenance technologies for nuclear containment building
post-tensioning systems.
Federal clearance for access to the South Texas Project, nuclear power plant.
Building Roads to Last for Synthetic Industries, organized, managed and assisted in course
layout/presentation seminar for woven and non-woven geotextiles.
“Train the Trainer” course at NCSU McKimmon Center
ACI 318-02 Code Revisions Seminar
Designing the Staggered Truss System
Building Tomorrow’s Steel Frame Parking Structures Today
OSHA Safety Training & Hazmat Training
PGT University – Installation Best Practices
PGT University – Product Installation
PGT University – 5th Edition (2014) FL Bldg. Codes, Energy Efficiency & Water Infiltration

SunCam – FL Laws, Rules & Ethics

CERTIFICATIONS/REGISTRATIONS

Professional Engineer (PE)

Alabama, #34753-E
Florida, #73499
Georgia, #036457
Louisiana, #0039689
Mississippi, #26334
New Jersey, #24GE05178300
New York, #091866 (Inactive)
North Carolina, #026422
South Carolina, #28919
Tennessee, #115293
Virginia, #049760
West Virginia, #20031

Structural Engineer (SE) Credential

FenestrationMaster® Professional Certification (FMPC)
InstallationMasters® Replacement Accredited Instructor

PROFESSIONAL ASSOCIATIONS

American Architectural Manufactures Association (AAMA)
International Institute of Building Enclosure Consultants (IIBEC)
Florida Lath and Plaster Bureau (FLAPB)
American Society of Civil Engineers (ASCE)
ASTM International (ASTM)

PUBLICATIONS

FLAPB Windows Committee – Taylor, J. B. (Primary Author, Committee Document), TB-ST 08-17 “Stucco Around Wood Framed Window Openings – A Global Perspective”, Florida Lath and Plaster Bureau (FLAPB), August 2017.