



CURRICULUM VITAE
H. THOMAS BAKER, P.E.
Mechanical Engineer

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Academic Background

M.S., Mechanical Engineering, University of North Florida, 2014
 B.S., Mechanical Engineering, Georgia Institute of Technology, 1991
 B.S., Physics, Jacksonville University, 1990

Registrations

Registered Professional Engineer, State of Florida, License No. 69759
 Registered Professional Engineer, State of Georgia, License No. PE040850
 Registered Professional Engineer, State of Alabama, License No. 33393-E

Qualifications

OSHA Authorized General Industry Safety Instructor, License No. 20-0079266
 Aerial Work Platform / Mobile Elevating Work Platform Operator and Instructor
 Forklift Certified Operator and Operator Instructor ID #31064
 CFII, Certified Fire Investigator Instructor, NAFI Registration No. 13432-6652i
 CFEI, Certified Fire & Explosion Investigator, NAFI Registration No. 13432-6652
 CXLT Variable Incident Tribometer Certification No. 220
 State of Florida Continuing Education Instructor #1322213
 National Marine Manufacturers Association Product Compliance Specialist

Professional Work History

Principle Engineer, Forensic Engineering, PLLC 2016 - Present
 Mechanical Engineer, CED Technologies Inc., 2007 - 2016
 Owner Operator of Equipment Rental Company, Jacksonville Beach, Florida, 2006 - 2010
 Product Development Engineer, Hunter Fans, Ponte Vedra Beach, Florida 2006 - 2007
 Engineering Manager, Gem Products, Orange Park, Florida, 2004 - 2006
 Project Engineer, Hager Hinge, Montgomery, Alabama, 2002 - 2004
 Engineering Manager, ITW Sexton, Martinsburg, West Virginia, 1995 - 2002
 Project Engineer, Can Corporation of America, Reading, Pennsylvania, 1993 - 1995
 Contract Field Engineer, Maxwell House Coffee Company, Jacksonville, Florida, 1992 - 1993
 Manufacturing Engineer, Lummus Industries, Columbus, Georgia, 1991 - 1992

Areas of Expertise

Construction Equipment Accidents	Forklift Safety and Training Compliance
Fire Causation Investigation	Product Defect / Recall Analysis
Consumer Product Design, Development, Testing	Manufacturing Processes and Equipment Guarding
OSHA Standards and Compliance	Aerial Lift Accidents (e.g. Scissor, Boom, Manlift)
Fenestration Design and Installation	Mechanical Fastener design, installation and failure

Professional Societies

ASTM Subcommittee Member on F15, Consumer Products Safety and Performance Standards
ASTM Subcommittee Member on F13, Walkway/Pedestrian Safety and Footwear
ANSI A92 Subcommittee Member for Aerial Work Platform, Design, Safe Use, and Training, MoR
ANSI A92.24 Interpretations Committee Member for Training Requirements for MEWPs
Scaffold and Access Industry Association (SAIA)
National Association of Fire Investigators (NAFI)
International Association of Fire Investigators (IAFI)
National Fire Protection Association (NFPA)
Jacksonville Safety Alliance – Charter Member

Publications and Presentations

ANSI A92.20 Design, Calculations, Safety Requirements and Test Methods for MEWPs
ANSI A92.22 Safe Use of Mobile Elevating Work Platforms (MEWPs)
ANSI A92.24 Training Requirements for the Use, Operation, Inspection, Testing and Maintenance of Mobile Elevating Work Platforms (MEWPs)
A92 Manual of Responsibilities for Aerial Devices, December 2015 (Workgroup Member)
“Expert Discovery in a Scaffold, Crane, and Aerial Device Products Case”, DRI February 2016
“A Comparison of the ASTM F2508 and ANSI B101.3 Walkway Safety Tribometry Standards Using Measurements from Two Different Tribometers”, Accepted February 2018, Journal of Testing and Evaluation, ASTM International
ASTM F1694-14 Standard Guide for Composing Walkway Surface Investigation, Evaluation and Incident Report Forms for Slips, Stumbles, Trips, and Falls (Workgroup Member)
“A Study of Walkway Safety and Evaluation of Tribological Test Equipment,” Thesis, April 2014
“Team Approach to Defending a Large Loss Claim,” CLM, Retail, Restaurant & Hospitality, Feb. 2013
ASTM F2508 Standard Practice for Validation, Calibration, and Certification of Walkway Tribometers Using Reference Surfaces (Workgroup Member)
Discussion on vehicular “Black Box” technology, First Coast Connect Public Radio, December 2012
“Product Liability,” Continuing Education, Hartford Insurance Group, March 2012
“Toyota Recall,” Jacksonville Claims Association, July 2010

Professional Education

National Association of Forensic Engineers Seminar, January 2024
CXLT Certification Course, June 2023
Boat and Ship Systems, Construction and Structures for the Fire Investigator, IAAI April 2022
Fire Suppression and Ventilation System Failures in Commercial Cooking Operations, IAAI April 2022
Fire Sprinklers for the Fire Investigator, IAAI April 2022
Impact of an HVAC System on Fire Growth and Development, IAAI April 2022
Fire Scene Origin Determination and Photography Emphasizing Ventilation Effects, IAAI April 2022
Forensic Photography Symposium, January 2022
OSHA 503: Update for General Industry Outreach Trainers, May 2021
NSC Lift Truck Operator Train the Trainer, March 2021
Best Practices for Safety While Performing Sewer Bypass Work, January 2021
OSHA 2055 – Cranes in Construction, July 2020
Fundamentals of Site Grading Design, May 2020
Earthwork Basics and a Traditional Calculation Method, May 2020
HVAC Design, Industrial Ventilation, October 2019
HVAC Design, Cooling Towers, October 2019
Storm Pipe Fundamentals, September 2019
National Electric Code, NFPA 70, December 2018
HVAC Design, Fundamentals November 2018
Advanced Fire, Arson & Explosion Investigation Training, NAFI August 2017
OSHA Safety Trainer Course for General Industry, USF, July 2017
FlashShield Design and Installation Certification, May 2017

Professional Education (continued)

ABYC Marine Law Symposium, Manufacturer Track, January 2017
Automated Fire Detection, Alarm, Suppression, and Extinguishing Systems, January 2017
Origin & Cause Classification and Negative Corpus, NAFI, January 2016
Residential Electrical Fire Investigations – Fire Findings, May 2015
Genie Lift-Pro Train-the-Trainer Course for Aerial Lifts and Rough Terrain Forklifts, March 2014
Tribology: Speed Parameter Study, Graduate Course, UNF, Summer 2013
Tribology of Walking Surfaces, Graduate Course, UNF, Spring 2013
Handicap Accessible Historic Facilities, US Access Board, November 2012
Finite Element Modeling and Analysis, UNF, Fall 2012
Trainer Course in Occupational Safety and Health Standards for General Industry, USF, November 2012
Occupational Safety and Health Standards for General Industry, USF, August 2012
Analysis and Quantification in Risk for Design and Engineering, Graduate Course, UNF, Summer 2012
Advanced Research Methods for Engineers, Graduate Course, UNF, Spring 2012
Fracture Mechanics and Failure Analysis, Graduate Course, UNF, Fall 2011
Florida Sunshine Law, Public Meetings, and Ethics Law Training, November 2011
Scanning Electron Microscopy and Microanalysis, Graduate Course, UF, Summer 2011
Advance Material Selection, Graduate Course, UNF, Spring 2011
Life Safety Code Seminar with Focus on Occupancies, December 2010
Florida Building Codes Administrative Core, FSU, July 2009
Inspection & Investigation of Commercial Vehicle Accidents, IPTM, August 2009
Vehicle Accident Reconstruction Methods, Society of Automotive Engineers, August 2008
JLG Industries Train-the-Trainer Course for Aerial Lifts and Rough Terrain Forklifts, September 2008
Aerial Work Platform Operator Certificate, April 2008
Bosch Automotive Crash Data Retrieval Course (CDR), February 2008
English XL Tribology Training, January 2008
American Boating and Yacht Council Standards Accreditation Course, December 2005
National Marine Manufacturers Association Product Compliance Course, March 2006
Architectural Door and Hardware Apprentice Consultant, 2005
Autodesk Inventor – Intermediate Course, September 2005
Electrified Architectural Hardware Components EH1, March 2004
Scheduling Architectural Hardware ADH2, November 2003
Writing Hardware Specifications, October 2004
Principles of Specification Writing, 2004
Statistical Management Decision Analysis, Graduate Course, Summer 2001
Quality Control Auditor, Tri-State Quality Systems, 2001
Tool Steels for Container Tooling, September 1998
Tin Plate Properties and Manufacturing Processes, September 1998
Setup Reduction for Manufacturing, June 1998
Cellular Manufacturing Development & Implementation, February 1998
Geometric Dimensioning and Tolerancing for ASME Y14.5, December 1997
Deep Drawing of Large Parts and Transfer Automation, September 1996
Project Management, Fred Pryor, August 1996

FEE SCHEDULE
Effective January 2025

H. THOMAS BAKER, P.E.

Time

Engineering time is billed at **\$310 per hour**. This rate applies for all engineering services such as research, discovery review, analysis, testing, inspections, travel, etc. Depositions or trial testimony are billed at **\$410 per hour**. There are no charges or administrative fees for opening or maintaining case files.

Expenses

Normal expenses and costs will be charged to the case. These include:

Mileage	\$0.70 per mile
Flash Drive	\$25 per unit
Digital Photographic and CD	\$25 per CD
Video Recording	\$25 per DVD
Printed Photographs	\$0.25 per photo or page
Large Media Print	\$70.00 per print
Laboratory Usage Fee	To be specified
Equipment Storage Fee	To be specified
Evidence Storage Fee	Depending upon size
Special Equipment for Testing	At cost
Testing Materials	At cost
Travel Tickets	At cost
Hotel, Meals, etc.	At cost

Materials and/or other specified expenditures that are required for the case will be charged at cost. Items purchased that are retained by Forensic Engineering and usable in other cases will not be charged.

Activities are billed monthly or at the completion of a work phase. All balances are due upon receipt of invoice. Rates are subject to change without notice. Unpaid bills are charged a service fee of 1 ½ % per month for unpaid balances.

Forensic Engineering, PLLC reserves the right to require a retainer. This retainer is a forward payment of future services for which the client has contracted, retained and agreed upon the engineer's billable rates and expenses.

The receipt of the signed Client Letter of Agreement (LOA) or case file material received by Forensic Engineering, PLLC indicates the acceptance of rates and terms and conditions of the LOA.

If there is a question about any item on our fee schedule, please call to discuss your concern. Our ultimate goal is to provide you with the highest level of service possible.