

# HEAD of Engineering, LLC

Expert Witness  
Structural and Forensic Engineering Consulting

## Michael C. Head, PE, LEED AP BD+C - Curriculum Vitae

Michael C. Head, PE, LEED AP BD+C  
HEAD of Engineering, LLC  
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Structural Engineering, when performed correctly, enhances the form that the Architect has devised. Mr. Head's goal is to give the legal, design and construction communities an experienced option when problems (opportunities even) arise on a project and to assist attorneys, insurance companies, contractors, architects, engineers, owners and developers - as an independent set of eyes without bias or agenda - in determining whether designs meet code minimums and whether, or not, a project was designed or constructed according to the standard practice in the industry and, on occasion, conducting forensic investigations into causes of failure of a facility to perform as was intended.

On the rare occasions when codes or standards are not met, structural materials are under strength, extraordinary loads are experienced on the structure or safety methods on site prove to be inadequate, he is available to assist attorneys, insurance companies, contractors, architects, engineers, owners and developers in determining the reasons that the structural systems under-performed and, where possible, how to efficiently return the facility to fulfill its intended function.

### Services He Provides

- Forensic Engineering and Analysis
- Expert Witness/ Litigation Assistance
- Failure Investigations
- Construction Administration Assistance
- Structural Assessments of Existing Buildings
- Property Assessment
- Repair/ Rehabilitation
- Renovations - Analysis of Existing Structures
- Peer Reviews
- Code Review and Interpretation
- Historic Preservation
- Strength Hardening (i.e. Hurricane and Tornado resistant design)
- Structural Design
- Special Inspector/Threshold inspection
- Stadium/Bleacher Safety Inspections
- Wind Analysis
- Seismic Design
- Specialty Design

Mr. Head has more than 35 years of structural engineering analysis, design and project/construction management experience throughout Saudi Arabia and the United States ranging from the design of new facilities, strengthening, renovation, retrofitting and repair of existing structures in the GMP, Design/Bid and Design/Bid/Build delivery method and conducting forensic investigations.

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In these 35+ years he has been primarily engaged in the design and construction of building structures. During that time he has seen the good and the bad, what works and what doesn't and has seen the design and the construction processes change dramatically.

His investigation, design and construction experience make him highly qualified to engage in forensic investigations and to assist the design, construction and legal communities in analyzing problems and determining how to address and solve them.

Mr. Head was formerly Senior Structural Engineer in the Atlanta office of Heery International, a full service architectural, engineering, project management and construction management company with offices in 15 states in the USA.

At TLC Engineering for Architecture, a multi-disciplinary firm (MEPS) with 12 offices in Florida, Louisiana, Texas and Tennessee, he was a Principal/Partner and Senior Structural Engineer where he served as Chairman of TLC's Structural Committee.

He was responsible for the day-to-day development of projects from proposal to preliminary design through preparation of contract documents through construction administration to project completion. His contributions include client liaison, managing the design team, engineering design, coordination of drafting, specification preparation, coordination with contractors and other disciplines, scheduling and resolution of construction related issues on a wide range of projects using structural steel, composite steel, cast-in-place concrete, post-tensioned concrete, precast concrete, concrete masonry, steel studs and timber.

As Structural Engineer-of-record (EOR) of the Dr. Phillips Center for Performing Arts in Orlando, he managed TLC's design and CAD staff in addition to two minority structural sub-consultants and ARUP who served as theater sub-consultant to TLC as well as coordinating with three architectural firms (3 AOR's) on this \$240 million project.

His work experience at Stanley D. Lindsey and Associates Ltd, Brittingham and Associates, O'Kon and Company, Omrania (UK), Ltd and Ove Arup and Partners (now ARUP) also included many prestigious and complicated projects and forensic investigations.

He is a registered professional engineer in 12 States (AL, AR, AZ, FL, GA, MA, MD, MS, NC, NH, SC, TN), Washington, D.C., a registered Special Inspector in Florida and a LEED Accredited Professional.

His diverse portfolio includes aircraft hangars, airline terminals, apartment complexes, arenas, central utility plants, churches, concert halls, convention centers, educational facilities, medical facilities, gymnasiums, hotels, laboratories, manufacturing plants, low and high-rise office buildings, parking decks, performing arts centers and radiation treatment plants.

His clients have included military and government agencies, universities and school boards, private developers, international airports and air carriers, banks, media corporations, hospitals and hotel chains, attorneys and insurance companies.

## Professional Registrations

Professional Engineer (P.E.) in Alabama, Arizona, Arkansas, Florida, Georgia, Maryland, Massachusetts, Mississippi, New Hampshire, North Carolina, South Carolina, Tennessee and Washington, D.C., Florida Special Inspector and LEED AP.

**Professional Affiliations**

American Institute of Steel Construction (AISC)  
American Concrete Institute (ACI)  
Structural Engineers Association of Georgia (SEAOG)  
National Council of Structural Engineers Associations (NCSEA)  
LEED® Accredited Professional (LEED AP BD+C)  
Post-Disaster Safety Assessment Services Worker (California Emergency Management Agency)

**Education**

University of Southampton, Southampton, England - B.Sc. in Civil Engineering, 1977  
Vanderbilt University, Nashville, TN - M.S. in Structural Engineering, 1985. GPA = 3.0 (A=3.0). Teaching Assistant.

**Employment History**

***HEAD of Engineering***

*Atlanta, Georgia*

*2016-Present*

*Principal*

- Dr. Phillips Orlando Center for Performing Arts, Orlando, Florida  
Consultant for the Music Hall Theater Design for the completion of the facility
- Lamplight Court Apartments, Doraville, Georgia - Design for replacement Stairs and Balconies
- 524 West Peachtree Street, Atlanta, Georgia Structural Evaluation

***Heery International***

*Atlanta, Georgia*

*2012-2016*

*Sr. Associate/Sr. Structural Eng.*

- Seymour Johnson AFB Clinic, Goldsboro, North Carolina  
Design/Build delivery of a new, two-story clinic facility that included a PTFE fabric roof over the Medical Mall Atrium and structural design to resist wind, seismic and Anti-Terrorist /Force Protection (blast) design loads.
- Robins AFB Clinic Renovation and Structural Upgrade, Warner Robins, Georgia  
Design/Build renovation of 1960's Facility to meet current wind, seismic and Anti-Terrorist/Force Protection (blast) design requirements.
- Georgia Military Academy Basketball Arena, Milledgeville, Georgia  
Steel framed concrete upper story on reinforced concrete lower level with basketball court, running track, weight room and curved roof trusses.
- Billerica House of Corrections Expansion, Middlesex County, Massachusetts  
256 bed precast modules expansion and a two-story dorm with 240 beds

***TLC Engineering for Architecture***

*Fort Myers and Orlando, FL*

*2003-2012*

*Principal/Partner*

- Chairman of TLC's Structural Committee
- Dr. Phillips Orlando Center for Performing Arts, Orlando, Florida  
New world-class state-of-the-art center including three performance halls (a 2,800 seat amplified theater, an 1,800-seat acoustic theater and a 300-seat theater), an outdoor plaza and performance space, rehearsal rooms, administrative offices and educational programming space \$240M, 330,000 sf

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- Charlotte County Schools - Hurricane Charley 2004, Punta Gorda, Florida  
Investigation and reports for all the Charlotte County schools, in various state of damage, in the aftermath of Hurricane Charley
- Sarasota County, Charlotte County, Collier County Schools – Biennial Bleacher Inspections
- Agrirama, Arcadia, Florida  
Investigation of the partially collapsed Agrirama Building during Hurricane Charley
- Collier County Schools – Hurricane Wilma 2005, Naples Florida  
Investigation and reports for several Collier County schools in the aftermath of Hurricane Wilma
- Sarasota County Assembly Building  
Investigation of partially collapsed, recently renovated Assembly Building
- East Elementary School, Punta Gorda, Florida  
Replacement Elementary School on site of hurricane destroyed school. LEED Certified
- Fort Myers Post Office, Fort Myers, Florida  
Investigation of existing Post Office built in 1910 to be transformed into an Arts Center
- Sarasota High School, Building 4, Sarasota, Florida  
Investigation and report of the condition of a distressed historic structure built in 1950
- WCI Headquarters Building, Bonita Springs, Florida  
200,000 sf, 6-story office building plus 4-level parking garage

## ***Stanley D. Lindsey and Associates, Ltd.***

*Atlanta, GA*

*1996 – 2003*

*Sr. Structural Eng.*

- First Congregational Church, Atlanta, Georgia  
Investigation and report for renovation, partial demolition and expansion of 1910 era historic church
- Three Wells Fargo Center Office Building and Parking Garage, Charlotte, NC  
40-story, 1.3 million sq.ft. reinforced concrete office building  
4 above and 4 below ground parking levels.
- Turner Chapel AME Cathedral, Marietta, Georgia  
3,000 seat auditorium, 95,000 sq.ft. church
- B-52 Two-bay Fuel Cell Maintenance Hangar, Barksdale AFB, Shreveport, LA  
60,000 sq. ft. structural steel hangar for two B-52 bombers
- Centers for Disease Control and Prevention Laboratory Building 110, Atlanta, Georgia  
5-story reinforced concrete laboratory building with concrete interstitial floors designed to prevent progressive collapse in the event of a terrorist attack
- Centers for Disease Control and Prevention, Central Energy Plant, Atlanta, Georgia  
Two-story Plant to supply energy and utilities to the Chamblee CDC Campus  
Underground Utility Tunnel to connect the CEP to the New Lab 110 Building
- Columbus Public Library, Columbus, Georgia  
3-story, 100,000 sq.ft. structural steel Library with Robert A.M. Stern Architects
- Schwartz Center for the Performing Arts, Emory University, Atlanta, Georgia  
800 Seat Concert Hall  
70 ft span trusses over 800 Seat Concert Hall  
500 tons of acoustical, pre-cast concrete hung from bottom of trusses  
Orchestra Rehearsal Hall, Dance Studio, Theater
- Fort Valley Basketball Arena, Natatorium Complex, Fort Valley, Georgia  
1400 seat Basketball Arena and Natatorium

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## ***Brittingham and Associates***

*Norcross, GA*

*1994 - 1996*

*Sr. Structural Eng.*

- Beaufort Marine Air Corps Station Expansion, Beaufort, South Carolina  
Expansion of existing buildings and design of new hangars, training facilities, washracks and office facilities as part of the BRAC-III program
- Jacksonville NAS Various Buildings  
Renovation of paint and maintenance hangars  
Expansion of existing F-16 Naval Depot  
Investigation and renovation of various buildings
- Meadowview Conference and Civic Center and Hotel, Kingsport, Tennessee  
8-story flat plate, cast-in-place concrete hotel  
400,000 sq.ft. Convention and civic center

## ***O'Kon and Company***

*Atlanta, GA*

*1985 - 1994*

*Sr. Project Eng.*

- Pre-Civil War Woollen Mill Investigation  
Report for preserving Pre-Civil War structure
- Forensic investigation of partial collapse during construction at Bryant-Denny Stadium, Tuscaloosa, Alabama
- Various miscellaneous forensic investigations
- Jacksonville NAS Building  
Investigation and report of a 1940's building with long-span timber trusses
- Orlando International Airport, Orlando, Florida  
1.2 million sq.ft. post-tensioned parking garage  
500 room, post-tensioned flat slab hotel  
500,000 sq.ft. composite steel Flight Center/Airside Terminal for Delta Airlines
- Resurgens Plaza, Atlanta, Georgia  
30-story office building and parking garage built in Rapid Transit Rail air rights

## ***Omrانيا (UK) Ltd.***

*London, UK*

*1982- 1983*

*Project Engineer*

- *Design of multiple projects in Saudi Arabia for the London office of a multi-disciplinary, Saudi Arabian company*

## ***Ove Arup and Partners (Now ARUP)***

*London, UK, and Riyadh, Saudi Arabia*

*1977 - 1982*

*Project Engineer*

- Hillat Al Hammad shopping center and parking garage
- Shumaisi and Al Taif Hospital Expansions
- Various Villas and low rise office buildings and hotels
- KOCOMMAS Government center in Riyadh, Saudi Arabia