

**J. Barton Weeks, MS, MBA, PE, M. ASCE, HERS, CGP**  
**President**  
**Weeks Engineering Construction & Consulting, LLC**

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**EDUCATION:**

Samford University, Birmingham, AL

Master of Business Administration, May 1996, GPA - 3.73

Virginia Polytechnical Institute and State University, Blacksburg, VA

Master of Science in Civil Engineering (Structural Program), December 1989, GPA - 3.86

Auburn University, Auburn, AL

Bachelor of Science in Civil Engineering, March 1988, GPA - 3.80, Cum Laude

Tulane University, New Orleans, LA

Civil Engineering, Fall 1983 - Fall 1984, GPA - 3.80

**WORK EXPERIENCE:**

***Weeks Engineering Construction & Consulting, LLC, Birmingham, AL***

***President, 1999 to present***

Thirty-two years' experience in structural and civil engineering and industrial, residential and commercial construction. Engineered and constructed over 70 complex remodeling projects and more than 20 residential homes. Performed home inspections, infrared inspections, structural inspections, building code analysis, failure analysis, building envelope analysis, home energy ratings, and special construction inspections for owners, builders, and attorneys. Experienced in the design of multi-story buildings, foundations, frameworks, and equipment enclosures. Serve as principal design engineer, construction manager, and business consultant on projects from residential to large industrial structures. Responsible for client contact and design means and methods. Responsible for technical leadership, construction drawings and specifications, engineering budget and schedule, and client and vendor contact.

Performed civil and structural analysis and design calculations for residential, commercial, and industrial buildings using steel, concrete, masonry, timber, pre-stressed / post-tensioned concrete, reinforced fiberglass, aluminum, and cold-formed steel. Reviewed shop drawings, provided site assessment of damaged building frameworks, and property inspections. Utilized computer applications for structural analysis, roadway design, bridge design and storm drainage analysis. Have performed field surveys for residential construction, bridges, and roads. Supervised field personnel, procured materials, estimated material and labor quantities and costs, and scheduled construction sequence and timeline using project management software.

***Raytheon Engineers and Constructors, Birmingham, AL***

***Structural Design Engineer, 1995 - 1999***

Served as design engineer on industrial construction for the pulp and paper industries, chemical industries, and process industries. Responsible for overall structural design and supervision of engineers and designers. Served as Engineering Technology Leader for the Structural Department which involved overall coordination and implementation of computer aided design, training engineers and designers in software and hardware use, maintaining structural analysis and design software and vendor contacts, implementation of computer technology on all projects, computer programming, maintaining CAD platforms in MicroStation and AutoCAD, maintaining department intranet, providing interface to other disciplines for BIM projects, recommending software purchases, and participating in engineering users' groups. Act as a liaison between project management and design engineering on implementing value engineering for clients.

***Fluor Daniel, Inc., Cincinnati, OH***

***Lead Structural Engineer, 1995***

Served as lead structural engineer on a \$150 million paper machine expansion for The Procter & Gamble Company. Directly supervised a staff of engineers and designers on the design of six new buildings to support the

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paper machine. Coordinated work sharing with another design office which made the design effort appear seamless to the client. Responsible for technical leadership, construction drawings and specifications, engineering budget and schedule, and client and vendor contact. Responsible for 3-D BIM implementation on the project and capital cost savings to the client.

***Rust Engineering Company, Birmingham, AL***  
***Structural Design Engineer, 1990 - 1994***

Served as design engineer on industrial construction for the pulp and paper industries, chemical industries, and process industries. Responsible for overall design of buildings and foundations, frameworks, equipment supports, and other structural facilities. Supervised designers and engineers during the design phase so that schedules and budgets were met. Gathered data from clients and vendors to ensure compliance with established design criteria. Experienced in 3-D structural analysis and design software on multi-platform operating systems and adept at generating CAD drawings. Implemented computer programs for the analysis and design of concrete and steel structures. Instructed engineers on computer software applications and LRFD steel design.

***Virginia Tech, Blacksburg, VA***  
***Graduate Teaching Assistant, 1988 - 1989***

Directed classroom activities which included consulting with students, preparing lectures, and grading homework. Presented lectures and led land development lab. Researched vibration dampeners for concrete floors supported by steel joists. Performed in-depth study on the economies of the LRFD steel design method as compared to ASD steel design.

***Mark Diversified, Inc., Sacramento, CA***  
***Field Engineer, 1988***

Supervised field personnel, procured materials, estimated material quantities, and scheduled construction sequence and timeline using project management software. Led effort in OSHA compliance and worked with client on quality control and cost savings.

***Gresham Smith & Partners, Nashville, TN***  
***Intern Engineer, 1986 - 1987***

Performed structural analysis and design calculations for commercial buildings, reviewed structural steel and concrete rebar shop drawings, and provided site assessment of damaged building frameworks. Utilized computer applications for roadway and bridge design and storm drainage problems.

***Turner Engineering Company, Nashville, TN***  
***Intern Surveyor, 1985***

Surveyed for garden homes, bridges, and roads. Operated level and transit and kept field notes which were used for plot plans, contour maps, benchmark surveys, and construction staking.

**UNIVERSITY HONORS & ACTIVITIES:**

Auburn University Civil Engineering Outstanding Student of the Year, 1987  
Alabama ASCE Student Engineer of the Year, 1987  
Auburn University Alternate Outstanding Engineering Graduate, Winter Quarter 1988  
Phi Kappa Phi, National Honor Society  
Tau Beta Pi, National Engineering Honorary, Secretary 1986-1987  
Chi Epsilon, Civil Engineering Honorary, President 1987-1988  
Phi Eta Sigma, Freshman Honorary  
Virginia Tech Pratt Scholarship  
Auburn University Norman Liver Scholarship  
Alabama ASCE Scholarship  
Virginia Tech Graduate Teaching Assistant  
Who's Who Among Students in American Universities and Colleges  
Outstanding College Students of America

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Dean's Honor List  
Engineer in Training, Alabama (#6825)  
Sigma Phi Epsilon Fraternity  
    Scholarship Chairman, 1987-1988  
    House Improvements Chairman, 1987-1988  
    Senior Scholarship Award, 1988  
Engineering Student Council  
American Society of Civil Engineers, Student Member  
Intramural Athletics (Swimming, Tennis, Basketball, Triathlon)

**PROFESSIONAL & COMMUNITY ACTIVITIES:**

Registered Professional Engineer, Alabama  
Registered Professional Engineer, Ohio  
Licensed Alabama Home Builder and Remodeler  
Registered Alabama Home Inspector  
Certified Green Professional (CGP)  
Home Energy Rater (HERS Rater)  
U.S. Green Building Council, Member  
International Code Council (ICC), Professional Member  
American Society of Civil Engineers (ASCE), Member  
Structural Engineering Institute (SEI), Member  
Greater Birmingham Association of Home Builders (GBAHB), Member  
National Association of Home Builders (NAHB), Member  
Structural Engineers Association of Alabama (SEAoAL), Member, Secretary/Treasurer - 1998, 1999  
American Concrete Institute (ACI), Professional Member  
American Institute of Steel Construction (AISC), Professional Member  
American Forest & Paper Association's American Wood Council (AWC), Professional Member  
Residential Energy Services Network (RESNET), Member  
GT-STRUDL User's Group, Vice Chairman, 1996  
Intergraph Structural User's Group, Interfaces Vice Chairman, 1996  
Intergraph Structural User's Group, Interfaces Chairman, 1997  
Young Business Leaders of Birmingham  
Loaned Executive to the United Way, 1990, 1991  
Member Strathmore's Who's Who, 1996  
Member International Who's Who of Professionals, 1997

**PRESENTATIONS & PAPERS:**

*Residential Construction for the new Millennium*, Birmingham Parade of Homes, 1999  
*Internet and Intranet Webs: For the Engineer and Contractor*, Auburn University Extension Center, 1998  
*Masonry Construction*, Auburn University Extension Center, 1998  
*Design of Engineered Masonry*, Structural Engineers Association of Alabama, 1998  
*Concrete Construction*, Auburn University Extension Center, 1997, 1998  
*Timber Construction*, Auburn University Extension Center, 1997, 1998  
*Steel Construction*, Auburn University Extension Center, 1996, 1997  
*FrameWorks Plus in a Production Environment*, Fall IGUG, 1996  
*A Steel Design Comparison: LRFD vs. ASD*, Virginia Polytechnic Institute and State University, 1989

**SEMINARS ATTENDED**

National Steel Construction Conference, Nashville, TN, 05/21/1989  
Alternate Design Method for Concrete Design, Birmingham, AL, 10/27/1995  
Fiber Reinforced Concrete, Birmingham, AL, 12/07/1995  
Anchorage to Concrete, Birmingham, AL, 05/02/1996  
Steel Design, Birmingham, AL, 10/10/1996

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National Council of Structural Engineers Association, Portland, MA, 10/2/1998  
Specifying Metal Building Systems, Birmingham, AL, 08/19/1999  
National Council of Structural Engineers Association, Seattle, WA, 09/23/1999  
Design of Reinforced Masonry Structures, Birmingham, AL, 11/12/1999  
Structural Engineering Software, Birmingham, AL, 1/20/2000  
The Design- Build Process, Birmingham, AL, 08/16/2001  
The Engineer's & Surveyor's Role as an Expert Witness in Civil Litigation, Birmingham, AL, 10/19/2001  
Overview of the Structural Provisions of the International Building Code 2000, Birmingham, AL, 01/31/2002  
Wood Solutions Fair, Atlanta, GA, 04/17/2002  
Construction Contracts & Law, Birmingham, AL, 05/25/2002  
Mechanically Stabilized Earth Walls, Birmingham, AL, 12/08/2004  
Specialty Foundations, Ground Improvement, Ground Treatment & Earth Retention, Birmingham, AL, 03/10/2004  
Design of Masonry Structures Using the Masonry Designers Guide, Birmingham, AL 3/19/04  
318-05 Building Code, Birmingham, AL, 01/01/2005  
Concrete Parking Lot Design, Birmingham, AL, 02/03/2005  
Killer Contract Clauses, Birmingham, AL, 02/09/05  
Foundations for Problem Soils, Birmingham, AL, 05/12/2005  
Southern Pine: Design, Specify & Build, Birmingham, AL, 05/24/2005  
Pressure Treated Southern Pine, Birmingham, AL, 08/04/2005  
Designing Load Bearing Mid Rise Structures Using Cold Formed Steel Framing, Birmingham, AL, 09/15/2005  
Engineered Wood Products, Birmingham, AL, 04/11/2006  
Design Steel Your Way with the 2005 Specification, Birmingham, AL, 08/30/2006  
Managing Construction Liability, Birmingham, AL 10/12/2006  
Design of Wood Frame Buildings for High Wind, Snow, and Seismic Loadings, Birmingham, AL 09/10/2007  
Contract Review and Revision I: Contract Basics, Birmingham, AL 01/25/2008  
Crystalline Waterproofing Technology: Improving Concrete Durability, Birmingham, AL 05/27/2008  
Water-Repellency and Efflorescence Control in Masonry, Birmingham, AL 05/28/2008  
An Overview of Decorative Concrete Solutions, Birmingham, AL 05/29/2008  
Concrete Floor and Slab Construction (ACI 302.1R), Birmingham, AL 10/06/2008  
Beyond Contract Basics: A Monograph, Birmingham, AL 12/17/2008  
Polymer Concrete Surface Systems: A Green & Sustainable Solution, Birmingham, AL 12/18/2008  
The Features, Benefits & Applications of Structural Insulated Panels (SIPs), Birmingham, AL 12/18/2008  
NFPA 13D - Installation of Fire Sprinklers in 1 & 2 Family Homes, Birmingham, AL 01/19/2009  
Collaboration and Interoperability with BIM for Structural Engineering, Birmingham, AL 09/24/2009  
CHANCE Academy Helical Piles & Tieback Seminar, Atlanta, GA 12/03 - 12/04/2009  
Further Studies in Contract Review, Birmingham, AL 12/14/2009  
Controlling Moisture Movement in Buildings: Air & Vapor Barrier Approach, Birmingham, AL 06/13/2010  
Design Criteria for Ceramic Tile/Stone Installations, Birmingham, AL 06/13/2010  
Moisture Management in Residential Walls, Birmingham, AL 06/13/2010  
The Principles of Rainscreen Construction, Birmingham, AL 06/13/2010  
Weather Resistant Barriers in Vertical Exterior Walls, Birmingham, AL 06/13/2010  
Using Water Repellents to Prevent Water Intrusion into Above-Grade Masonry, Birmingham, AL 06/13/2010  
Bridging Environmental & Architectural Design to Nurture Renewability, Birmingham, AL 06/13/2010  
Water Resistive Barriers – Installation and 2006 Code Changes, Birmingham, AL 06/18/2010  
Strategies for Green Building, Durability & Sustainability, Birmingham, AL 06/18/2010  
Slabjacking, Birmingham, AL 06/19/2010  
Structural Crack Repair by Epoxy Injection, Birmingham, AL 06/20/2010  
Control of Cracking in Concrete Structures, Birmingham, AL 06/20/2010

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Designing High-Performance Buildings with EnergyPlus, Birmingham, AL 07/06/2010  
Rainscreen Systems: Moisture Management in Layers, Birmingham, AL 07/16/2010  
Achieving New Heights with Wood-Framed Tall Walls, Birmingham, AL 07/21/2010  
Hot-Dip Galvanized Steel for Corrosion Protection, Birmingham, AL 07/26/2010  
2005 National Design Specification for Wood Construction – ASD/LRFD, Birmingham, AL 08/19/2010  
Control of Condensation / Mold / Energy Leakage to Improve Building Performance, Birmingham, AL 08/30/2010  
Home Energy Rating System - Southface Energy Institute, Atlanta GA, 10/12 – 10/17/2010  
2005/2008 Special Design Provisions for Wind and Seismic – ASD/LRFD, Birmingham, AL 10/14/2010  
What You Need to Know About the National Green Building Standard ICC-700, Birmingham, AL 11/03/2010  
Understanding LEED for Architects, Birmingham, AL 01/18/2011  
High Performance Building: Design, Birmingham, AL 01/19/2011  
Sustainable Waterproofing Solutions, Hycrete Concrete Solutions, Birmingham, AL 02/08/2011  
Residential Requirements of the 2009 International Energy Conservation Code, Birmingham, AL 04/23/2011  
Lessons in Professional Liability: Liability IQ, Birmingham, AL 05/20/2011  
Applications of Spray Polyurethane Foam Systems, Birmingham, AL 05/24/2011  
Designing Waterproofing Systems for Basement Conversions from Crawl Spaces, Birmingham, AL 06/15/2011  
Roofing & Waterproofing Codes, Birmingham, AL 07/03/2011  
Assuring Water Resistance of Masonry Construction, Birmingham, AL 07/17/2011  
A Solution for Tile Roofs: Polyurethane Foam Roofing Adhesives, Birmingham, AL 07/17/2011  
An Introduction to LEED, Birmingham, AL 07/17/2011  
Moisture Protection in Masonry Walls – Designing and Installing the Proper System to Minimize Moisture Infiltration, Birmingham, AL 12/15/2011  
How to Design, Build and Market an ENERGY STAR Home, Birmingham, AL 02/05/2012  
You Can Do It! 10 Easy Steps to High Performance Houses, Birmingham, AL 02/17/2012  
Green Building for Building Professionals, Montgomery, AL, 02/27 - 02/28/2012  
NAHB Basics of Building, Birmingham, AL 03/01/2012  
Walkable Thermoplastic Deck and Roofing Membrane Systems, Birmingham, AL 03/04/2012  
The Four Barriers of the Building Envelope, Birmingham, AL 03/20/2012  
Green Building Envelope Design, Birmingham, AL 04/15/2012  
Examples of High Performance Solutions Using LEED for Homes, Birmingham, AL 04/28/2012  
Exterior Wood Doors and the Battle Against Moisture, Birmingham, AL 04/28/2012  
ENERGY STAR Version 3 Rater Training, Birmingham, AL 04/30 – 05/03/2012  
LEED 101: Green Building Basics & LEED, Birmingham, AL 05/03/2012  
Spray Polyurethane Foam (SPF) For Building Insulation, Birmingham, AL 05/14/2012  
Light Weight Honeycomb Reinforced Stone Cladding System, Birmingham, AL 05/14/2012  
Low-Slope Roof Wind Design Overview, Birmingham, AL 05/15/2012  
Contract Basics for Design Professionals, Birmingham, AL 07/26/2012  
Decoding Thermal and Ignition Barrier Requirements for Spray Polyurethane Foam, Birmingham, AL 10/12/2012  
Retaining Wall Design Made Easy, Birmingham, AL 12/04/2012  
Recommended Installation of a Steam Shower System, Birmingham, AL 12/25/2012  
Cutting through Code Confusion: A New R-Value Guide for Roofs and Walls, Birmingham, AL 12/26/2012  
What You Need To Know About LEED For Homes v4, Birmingham, AL 01/16/2013  
Building Science for Existing Homes: The Top 5 of 2013, Birmingham, AL 04/06/2013  
Get the Dirt Out: Erosion and Sediment Control, Birmingham, AL 06/04/2013  
System Solutions for Optimizing Energy Efficiency and Structural Performance, Birmingham, AL 07/31/2013  
Durable Energy Efficient Wall Systems, Birmingham, AL 07/31/2013  
Thermal Performance: Energy Efficiency Through Insulation, Birmingham, AL 08/01/2013  
Concrete Waterproofing, Birmingham, AL 08/29/2013  
Below-Slab Vapor Protection: Taking the Ground out of Play, Birmingham, AL 08/29/2013  
Welded Wire Reinforcement Use in Concrete Structures, Birmingham, AL 08/29/2013  
Concrete Waterproofing with Crystalline Technology, Birmingham, AL 08/29/2013  
Brick Cladding and Water Management, Birmingham, AL 08/29/2013  
Enhancing Projects with Manufactured Stone Veneer, Birmingham, AL 08/29/2013  
Best Practices in delivering the LEED and NGBS-required Owner Education, Birmingham, AL 09/20/2013

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Designing Exteriors with Cellular PVC Trim and Moulding, Birmingham, AL 10/03/2013  
Steel Framing for Composite Decking, Birmingham, AL 10/05/2013  
Shear Wall Design Examples, Birmingham, AL 01/16/2014  
Liquid Resin Membrane Systems: Seamless Waterproofing Solutions, Birmingham, AL 02/20/2014  
ACI 332: A Contractor-Friendly Code, Birmingham, AL 06/03/2014  
Geotechnical Construction Solutions, Birmingham, AL 06/05/2014  
Sustainable Building Design: The Myth of Breathability, Birmingham, AL 06/17/2014  
Don't Get Soaked! - Drainage Solutions for the Rainscreen Building Envelope, Birmingham, AL 06/17/2014  
Managing Construction Phase Risks, Birmingham, AL 07/22/2014  
Design & Construction of FEMA Safe Rooms, Birmingham, AL 09/18/2014  
Mass Retaining Walls: Theory, Design, and Construction, Birmingham, AL 10/08/2014  
Combustion Safety & Work Scope for HERS Raters, Atlanta, GA, 11/05/2014 – 11/06/2014  
Weep Now or Weep Later, Birmingham, AL 03/15/2015  
Proper Brick Masonry Detailing, Birmingham, AL 03/15/2015  
Risk Drivers, Birmingham, AL 05/31/2015  
RESNET HERS Index and the 2015 IECC, Birmingham, AL 09/23/15  
Steel and the Phantasmagoria, Birmingham, AL 09/25/15  
What Went Wrong? Diagnosing Building Envelope Distress, Birmingham, AL 09/25/15  
Significant Changes to the Wind Load Design Procedures of ASCE 7-10, Birmingham, AL 12/02/15  
Underpinning and Strengthening of Foundations, Birmingham, AL 12/03/15  
The History of the AISC Specification, - 1923-2010, Birmingham, AL 01/22/16  
Design Example: Buried Concrete Basement Wall, Birmingham, AL 03/20/16  
Prescriptive Residential Wood Deck Construction Guide - 2012 IRC, Birmingham, AL 04/04/16  
NCMA Tornado Shelter Design Guide, Birmingham, AL 05/02/16  
Practical Solutions to Frequently Asked Welding Questions, Birmingham, AL 05/03/16  
Contract Review: Key Provisions - Raising the Bar, Birmingham, AL 05/04/16  
2015 IECC – Energy Rating Index (ERI) Compliance Alternative, Birmingham, AL 07/14/16  
Cable Railing Assemblies: Prefabricated Kits and Custom Design Options, Birmingham, AL 07/19/16  
2015 International Energy Conservation Code: Residential Compliance Basics, Birmingham, AL 07/20/16  
Subfloor: The Hidden Asset, or Lurking Liability, Birmingham, AL 07/21/16  
Designing and Constructing High-Performance, Low-Risk Building Envelopes - Avoiding Catastrophic Mold and Moisture Problems, Birmingham, AL 09/07/16  
Design Considerations of Wood Frame Structures for Permanence, Birmingham, AL 09/08/16  
Natural Thin Stone Veneer, Birmingham, AL 11/26/16  
Earthwork 101, Birmingham, AL 11/30/16  
Subfloor Construction Adhesives: Solvent Based, Water Based and Reactive, Birmingham, AL 12/30/16  
Continuous Insulation - Spray Polyurethane Foam vs. Rigid Foam Board, Birmingham, AL 12/30/16  
How Windows are Designed, Tested, and Rated for Comfort and Energy Efficiency, Birmingham, AL 12/30/16  
Hot, Humid & Cool: Passive House in the Deep South, Birmingham, AL 12/30/16  
Design Fundamentals of Fiber-Reinforced Polymer (FRP) Strengthening, Birmingham, AL 12/30/16  
Construction Stormwater Best Management Practices (BMP), Birmingham, AL 12/31/16  
Hydrologic Trespass and Nuisance Considerations in Stormwater Management Design, Birmingham, AL 12/31/16  
Design of Reinforced Concrete Liquid Structures, Birmingham, AL 12/31/16  
Wind Design for Non-Residential Wood Structures, Birmingham, AL 12/31/16  
Architectural Veneers and Cast Stone with Integral Finish - Attributes and Performance, Birmingham, AL 01/02/17  
Draining Your Wall, Not Your Wallet - Understanding Temp. & Moisture Relationship, Birmingham, AL 01/09/17  
Case Study: A Polyaspartic Coating, Birmingham, AL 02/01/17  
Dry Set Porcelain Pavers for Outdoor Applications, Birmingham, AL 03/20/17  
Water Management in Shower Installations, Birmingham, AL 06/04/17  
Solving For ASHRAE 62.2 Indoor Air Quality Standards, Birmingham, AL 06/12/17  
Design of Loadbearing Tall Wood Studs for Wind and Gravity Loads, Birmingham, AL 06/15/17  
HERS Raters Becoming Certified ICC Energy Inspectors, Birmingham, AL 07/11/17  
Using the Performance Path for Compliance in the IRC and Energy Code, Birmingham, AL 07/13/17  
Negotiations Strategies for Better Client Agreements, Birmingham, AL 07/27/17  
Roofing Options Alternative Roofing Systems, Birmingham, AL 07/31/17

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Improve Your Concrete with Fibers, Birmingham, AL 09/27/17  
ICF Construction for Your Next Commercial Project, Birmingham, AL 09/27/17  
Permeable Pavements for Storm Water Design, Birmingham, AL 09/27/17  
Designing Concrete Parking Areas Using ACI 330, Birmingham, AL 09/27/17  
Tilt Up Construction, Birmingham, AL 09/27/17  
Case Study of ICF Alabama Structures, Birmingham, AL 09/27/17  
Modern Admixtures to Improve Your Concrete Properties, Birmingham, AL 09/27/17  
Concrete Overlays for Failed Parking Areas, Birmingham, AL 09/27/17  
Understanding Alternative Exterior Trim, Birmingham, AL 10/03/27/17