

# AUSTIN DADA, E.I.T.

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## Structural Engineer

*Expert at integrating mechanical systems, innovative design and technology to deliver sustainable solutions.*

Equipped with progressive multi-functional experience in structural engineering and utility industry design; detailed knowledge of steel, concrete and fiber reinforced polymer structures and construction with demonstrated proficiency in a wide range of tactical planning functions.

Master's of Science in Structural Engineering expected August 2015 with experience in new concept development, existing design engineering and team leadership; excellent communication and interpersonal skills complimented by meticulous detail to project management from creation through execution.

Noted expertise as both a big-picture strategist and innovative problem solver with a passion for meaningful design and clean energy solutions; willing to relocate globally to join a forward-thinking company with shared vision for sustainability solutions, clean energy and reduced environmental impact.

### **Signature Strengths Include:**

*LEED AP Certified (Sept 2015) • Technical Research • Finite Element Analysis • Project Management • Sustainability  
3D Modeling • Safety Coordination • Building Envelope Design • Process Improvement • Structural Mechanics •  
Detailing and Design of Facades*

*Team Leadership • Training & Development • QA/QC • Structural Inspection & Analysis • Foundation Design*

### **Technology Snapshot:**

*CAD/AutoCAD (Structural & Civil 3D) • ANSYS • StructurePoint Software (spMats, spColumn) • Staad.Pro  
ProEngineer • SAP2000 • Bentley Microstation • Mac & PC Platforms • Advanced MS Office • Similar FEA Tools*

## PROFESSIONAL EXPERIENCE

### **SOUTHERN COMPANY - ENGINEERING AND CONSTRUCTION SERVICES (2011 - Present)**

Birmingham, AL

#### **Retrofit Engineering/Special Projects & Analysis Engineer (2013 - Present)**

Project Engineer responsible for all calculations and analysis performed to produce structural construction documents including drawings and reports; lead all aspects of specifications review, infrastructure strategy, engineering support and building expertise from conception through project completion with a strong focus on performance, innovation and efficiency.

- Lead engineering efforts to develop, analyze, execute and present new special projects utilizing ANSYS software; create quality plans, CAD design, protocol and test plans, inspection strategies and validation.
- Effectively manage and communicate with internal and external team members to prioritize work allocations, set timelines and coordinate timely management of streamlined engineering designs and practices.
- Inspect specialized equipment at power generating facilities including catalytic and jet bubbling reactors and flue gas desulfurization units; repaired and redesigned equipment to decrease harmful pollutant exhaust.
- Compile and analyze project reporting; track performance metrics, timeline management, project goals, activities and results vs. annual profitability goals and business objectives.
- Provide expertise on site standards and preferences, current site utility and infrastructure strategy, plan and capacities; clearly communicate direction and coordinate involvement in appropriate joint review sessions.

#### **Key Accomplishments:**

- Implemented an expedited method to check 100+ steel fabrication drawing packages for designers that increased productivity by 15%.
- Championed efforts to promote a cultural shift in office and construction site safety; effectively educated Engineers and Designers, clarified knowledge on specific dangers directly resulted in decreased site injuries.
- Facilitated the documentation of calculations and engineering design materials in design databases that reduced time spent on administrative recordkeeping by 10%.

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## *(SOUTHERN COMPANY SERVICES, CONTINUED...)*

### **Concrete & Foundation Engineer** (2011 – 2013)

Managed multiple projects for scope of engineering services ranging from foundations, retaining walls, structures and mechanical elements; solved complex queries, calculated loads, produced and evaluated various design solutions to improve cost, functionality and quality while meeting architectural and code requirements.

- Administered multiple structural projects in various phases of design and construction simultaneously; led design guidance, confirmation and project management for diverse structural elements.
- Guided all aspects project management; determined scope of work, managed work-flow and timelines, identified and addressed resource capability gaps within area of control.
- Effective leader in political and demanding environments; balanced competing priorities, promoted positive corporate culture, and delivered quantifiable results.

#### **Key Accomplishments:**

- Strengthened internal performance; created a database for 1000+ pipe supports on a large-scale commercial project that improved accessibility of information, increased productivity and reduced costs.
- Presented highly technical information to executive management in a clear, easy to understand format; imparted a better understanding of civil engineering design practices that improved budgeting decisions and increased understanding of the technical aspects of business operations.

## **UNIVERSITY OF ALABAMA AT BIRMINGHAM** (2007 – 2011)

Birmingham, AL

### **Research Student**

Participated in the design and execution of research projects in civil engineering; handled the compilation, organization and analysis of research data prepared for Engineers.

- Gained valuable hands-on testing and evaluation experience while utilizing sound judgment, problem solving and communication skills; applied knowledge to improve designs and reduce costs.
- Developed and executed comprehensive work plans; analyzed, evaluated and tested fiber-reinforced concrete panels and specimens through various methodologies.

#### **Key Accomplishments:**

- Poured and tested concrete within an eight (8) hour timeframe using custom made framework and testing apparatuses; successfully trimmed time and labor costs and increased quality.

## **EDUCATIONAL ACHIEVEMENTS & PROFESSIONAL AFFILIATIONS**

***MS, Structural Engineering***, University of Alabama at Birmingham, Birmingham AL (2015)

Relevant Coursework: Energy Resources II (LEED Requirements), Wind & Seismic Loads, Environmental Disasters, Design for the Coastal Environment

***BS, Civil Engineering***, University of Alabama at Birmingham, Birmingham AL (2011)

#### ***Professional Development:***

Field Problems, Solutions & Prevention, Hilti Innovative Solutions, ACI/PCA Reinforced Concrete Design, AutoCAD for Engineers, Power Plant Fundamentals, Load Path-The Most Common Source of Engineering Errors, High Performance Grouts, Connection Design for Industrial Structures, Design of Environmental Concrete Structures

#### ***Professional Memberships:***

Member, American Society of Civil Engineers (ASCE)

Member, American Concrete Institute (ACI)

Executive Council Sergeant-at-Arms & Secretary Officer, Southern Company Chapter of Toastmasters (2010 – 2012)

Lead Representative, Safety Committee for Civil Design (2012 – 2013)

(Served 130+ employees, presented safety topics, performed inspections and prepared quarterly reports)

#### ***Relevant Community Service:***

Executive Director, Community Garden, Birmingham, AL

Volunteer, Habitat for Humanity, Tornado Relief Efforts & Rebuilding Homes

Volunteer, "Into the Streets", UAB Community Service Event