

# Lindsey H. Duke

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## Education

**MASTERS OF BUSINESS ADMINISTRATION | JULY 2013 | KENNESAW STATE UNIVERSITY**

**BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING | MAY 2010 | THE UNIVERSITY OF ALABAMA**

## Experience

### **ERCOT Energy Trader | BLLD | April 2020 - present**

Active virtual trader in the ERCOT market. Seeking to prove success via macro style market fundamentals applied to a wholesale energy market. Participates daily with bids, offers, or point to point obligations in the ERCOT market. Serves as a joint business owner for BLLD.

### **COMMERCIAL OPTIMIZATION AND TRADING ENGINEER | SOUTHERN POWER | 2018 – FEBRUARY 2020**

Served on the ERCOT and WECC Power Purchase Agreement (PPA) team as the primary asset manager for two wind facilities and three solar facilities. Primarily worked to guarantee legal obligations to individual PPA's are achieved. Additionally, Lindsey served to optimize any market exposure by participation in the Day Ahead and Congestion Revenue Right market. Worked closely with Plant Performance and Operations teams to cross functionally assist in the optimization of plant generation. Serves as a backup asset manager to other ERCOT and WECC assets.

### **TRANSMISSION ENGINEER | SOUTHERN POWER | 2016 - 2017**

Assumed responsibility for getting the Dayzer nodal market tool running for both ERCOT and SPP markets. This tool was used to evaluate new sites as well as provide indicating factors of transmission congestion for Southern Powers existing fleet. Aides in assisting the development of new projects, remarketing efforts, and provide transmission support for existing projects. Created a methodology to compile and provide a monthly report for changes in interconnection queues across the nation.

### **NATIONAL ENERGY SOLUTION PERFORMANCE ENGINEER II | JOHNSON CONTROLS | 2010 - 2016**

Provide support nationally for energy modeling assistance and/or full project development (site walks, energy analysis, subcontractor walks, and construction phase assistance). Support short fall job mitigation in the form of technical calculations. Serve as an additional resource to any project nationally that needs assistance completing financial modeling in Johnson Controls Inc. proprietary software for Energy Savings Performance Contracts. Contribute to the FIMCalcs development team initiative by providing support and guidance as necessary to achieve stated goals.

## **Major Relevant Project Experience**

### **USMC BAUMHOLDER | BAUMHOLDER, GERMANY | \$10 MILLION**

- Developed biomass boiler and ceiling mounted radiant heating mechanical retrofits. Effort included auditing site facilities, coordination of client's requirements, scope development, and proposal draft write-ups. Also assisted the team in assembling the financial business case in JCI's proprietary software.

### **HAWAII DEPARTMENT OF TRANSPORTATION - AIRPORTS | HAWAIIAN ISLANDS | \$100 MILLION**

### **HAWAII DEPARTMENT OF TRANSPORTATION - HIGHWAYS | HAWAIIAN ISLANDS | \$60.3 MILLION**

- Development effort for these project's occurred simultaneously and the first project signed was for the Airports. Assisted in the development of four of the islands (16 of 35 different sites) completing site walks and eQUEST building simulations to determine the annual possible HVAC savings. Helped audit lighting and transformer savings calculations to determine and clarify discrepancies. Compiled a spreadsheet that incorporated every site and every possible savings number that is easily integrated into Johnson Controls proprietary financial modeling software.

- Hawaii Department of Transportation – Airports project was selected as a 2014 Merit Award winner.

### **FORT BUCHANAN PHASE II (AND CONTRACT MODIFICATIONS)| SAN JUAN, PUERTO RICO | \$15.8 MILLION+**

- Collaborated with team members to complete the site survey and analysis of trending data. Partnered to complete approximately 50 detailed eQUEST models simulating the existing building conditions and the proposed building conditions. Aided in the summarization of subcontract quotes, energy savings numbers, and controls costing number. Continue to coordinate with the construction team to develop energy savings for additional small scale contract modifications.

### **ATLANTA HOUSING AUTHORITY| ATLANTA, GEORGIA | \$10.7 MILLION**

- Assisted the lead development engineers by creating building energy models by using the Department of Energy's Building modeling tool, eQUEST. The building simulation tool was used to calibrate the building models to historical utility data and calculate energy savings for various energy conservation measures