

# MARK A. THOMPSON

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## MANAGER OF WIND ENGINEERING IN THE ENGINEERING & CONSTRUCTION ORGANIZATION

### ENGINEERING & CONSTRUCTION OF RENEWABLE INFRASTRUCTURES

Fifteen years' experience in design, construction and maintenance of renewable power generation and transmission infrastructures from inception to successful execution.

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### AREAS OF EXPERTISE

- Wind Generating Facility Design
- Transmission Line Design
- Procurement Strategies
- Major Equipment Evaluation
- Six Sigma, Value Engineering
- Budgeting & Resource Planning
- Engineering Design & Analysis
- Infrastructure Restoration & Maintenance
- Quality Management
- Project Management
- System Engineering Analysis

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### PROFESSIONAL EXPERIENCE

#### NEXTERA ENERGY RESOURCES

JUNO BEACH, FL

#### MANAGER, WIND ENGINEERING

JAN 2010 – PRESENT

- Designed and constructed over 12000 MW of wind infrastructure including substations and generation tie lines.
- Devised a robust design process for wind engineering including the development of a critical task list.
- Delivered well-rounded technical support and recommendations for early-stage development, estimation, and business management as well as for generator interconnection and power purchase agreement negotiations.
- Led technical design review for various complex wind generating projects while reviewing and approving all technical exhibits for the new turbine technology and all technical documents required for project financing.
- Negotiated technical requirements for Grid Operators including MISO, CAISO, SPP ERCOT, and PJM NYISO.

#### FLORIDA POWER & LIGHT CO. – INTEGRATED SUPPLY CHAIN (ISC)

JUNO BEACH, FL

#### SENIOR BUYER FOR POWER EQUIPMENT

Nov 2007 – JAN 2010

- Critically researched market forces and developed purchasing strategies focusing on cost reduction.
- Sourced potential suppliers and cultivated key partnerships to slash equipment costs and improve vendor performance.
- Expertly negotiated equipment lead time to ensure timely construction and engineering schedule adherence to complete projects on-time and under budget.
- Devised robust procurement strategies for procuring critical equipment need for greenfield and brownfield expansion.

#### SUBSTATION DESIGN ENGINEER

Nov 2004 – Nov 2007

*Led the design of distribution substations ranging from 23kV to 230kV step-down stations to connect the transmission system.*

- Enhanced power quality by implementing a capacitor bank design.
- Created temporary substation to facilitate equipment replacement in critical substations.
- Oversaw storm restoration to restore distribution infrastructure damaged by hurricanes.

#### MASTEC (Contractor for Florida Power and Light)

JUNO BEACH, FL

#### OVERHEAD LINE DESIGN ENGINEER

SEP 2002 – Nov 2004

*Designed underground distribution facilities for new commercial and residential development while leading the storm restoration crews after storms for restoration and maintenance activities.*

- Effectively managed the restoration crew with over 140 linemen to restore power lines after major hurricanes.

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***PRIOR EXPERIENCE***

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ALUMINA PARTNERS OF JAMAICA | **MAINTENANCE ENGINEER**

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***EDUCATION & PROFESSIONAL DEVELOPMENT***

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**MBA** – Nova Southeastern University – Davie, FL

**Bachelor of Science in Electrical Engineering (Honors)** – University of Technology – Kingston, Jamaica

**Six Sigma Black Belt in Quality Improvement**

**Certificate in Leadership Edge Training**