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# JACKSON D. MYERS

Renewable Energy Specialist

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## Experience

**VP, Transaction Analytics, REsurety, Boston, MA**

**2019 - Present**

I am leading the settlement team which serves as the Calculation Agent for 30+ renewable energy hedge contracts utilizing Proxy Generation - theoretical generation derived from SCADA and reanalysis data.

- Responsible for all aspects of delivering precise and reliable settlement and valuation reports to clients including: communications, data analytics, quality control, and development of tools and processes.
- Responsible for recruiting, training, and managing a team of analysts.
- Developed a new quality control process and analytical tools to support it.
- Coordinated with software engineering and product teams working under an agile framework to ensure continual improvement of proprietary software supporting the settlement workflow.

**Operations Performance Specialist, Pattern Energy, Houston, TX**

**2015 - 2019**

I improved the meteorology team's data analytics capabilities by creating a database driven automated analytics system, and leveraged the information it provided to help the asset management, operations, markets, accounting, and environmental teams make better business decisions based on the wind and solar resource.

- Created and maintained the SQL databases and related infrastructure necessary to facilitate automated reporting and data visualization of wind resource and turbine performance related metrics.
- Developed a model for estimating generation from wind and solar projects.
- Developed a wind and solar energy forecasting and notification system using NOAA weather models.
- Managed a fleet of met towers and developed tools for detecting faulty sensors.
- Supported the energy generation budget process with power performance testing of wind turbines and wind farm level pattern of production analyses.

**Performance Analysis Associate, EDP Renewables North America, Houston, TX**

**2012-2015**

I utilized SCADA data to maximize the profitability and reliability of wind and solar projects by proactively identifying equipment damage, identifying performance improvement opportunities, and evaluating performance improving technologies.

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- Performed ad-hoc analyses of wind and solar power plant performance and availability and identified performance improvement opportunities.
  - Supported engineering, energy assessment, meteorology, asset management, and finance teams by performing complex data analyses of wind and solar data.
  - Managed lightning reporting and lightning field research programs. Proactively identified lightning damage. Reduced turbine downtime and repair costs.
  - Developed tools to monitor impact of equipment failures, assess effectiveness of wildlife protection systems, and track plant performance and availability.

### **Mobile Application Developer - Self Employed**

2005 - Present

- I develop and market my own iOS and macOS applications including a weather app, a fitness app, and a webcam viewer.

### **Education**

#### **Rice University, Houston, TX — MS, Nanoscale Physics**

2008, PhD Applied Physics (ABD)

- Professional Masters program combining business and science coursework. Internship in industry, and rigorous academic program. All but dissertation in Applied Physics PhD program.

#### **McGill University, Montreal, Canada — BS, Physics**

2005

- Emphasis on experimental physics, coursework included electives in computer science, meteorology, and geology.

### **Skills**

- **Languages:** SQL, Objective-C, R, C, C#, Matlab.
- **Databases:** Snowflake, Postgres, MS SQL Server.
- **Software:** Xcode, R Studio, Visual Studio, MS Office, Google Workspace, PVSyst, Tableau.
- **Other:** Published and award winning photographer.

### **Publications**

- [Lightning Damage to Wind Turbine Blades From Wind Farms in U.S.](#)  
IEEE Transactions on Power Delivery (Volume:PP, Issue: 99, 2014)
  - [Lightning attachment to wind turbines in Central Kansas: Video observations, correlation with the NLDN and in-situ peak current measurements](#)  
N Wilson, J Myers, K Cummins, M Hutchinson, A Nag.  
EQEA, The European Wind Energy Association, Vienna, Austria, PO 145
  - [Multiple Lightning Discharges in Wind Turbines Associated With Nearby Cloud-to-Ground Lightning.](#) IEEE Transactions on Sustainable Energy (Volume:6, Issue: 2, 2015)
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