

# MATTHEW G. HOFF

Manager, Risk Control & Analytics

## PROFESSIONAL EXPERIENCE

Present  
|  
2021

### Manager, Risk Control & Analytics

Energy Harbor Corp.

📍 Akron, OH

- Oversaw development of nuclear generation asset risk pricing model inherent in the company's application for the [DOE's Civil Nuclear Credit](#) program
- Managed seamless cloud migration of business-critical data warehouse: [ZEMA](#)
- Initiated & oversaw the implementation of the Company's first version control system for internal, custom software development: [Enterprise GitHub](#)
- Initiated & oversaw the implementation of the Company's first Enterprise-level Integrated Development Environment (IDE) for internal, custom software development: [Posit Workbench](#)
- Leveraging GitHub & Posit Workbench, developed myriad interactive [Shiny](#) dashboards for pricing, position, & risk reporting
- Developed & automated the Company's daily Financial Trade report, summarizing the hedging portfolio's performance in terms of Mark-to-Market (MtM) and realized profits/losses (PnL) and by intention
- Developed, automated, & managed numerous risk metrics (VaR, GMar, etc.) concerning the financial hedge position
- Developed & implemented a weekly-held training course for R programming
- Managed the completion & clean-up of the Company's hedge confirmation backlog
- Developed new methods for creating price risk adders for Structuring & Pricing

2021  
|  
2020

### Analyst, Risk Management

Energy Harbor Corp.

📍 Akron, OH

- Created custom R package for interacting with Hitachi's [TRMTracker](#) API to enable the creation & automation of data pipelines and reporting
- Created automated data pipeline between source systems (e.g. ZEMA) and the Company's trade system of record (TRMTracker)
- Automated bid analysis processes for the annual Auction Revenue Rights (ARRs) auctions for both PJM & MISO RTOs

2020  
|  
2019

### Analyst, Regulated Settlements

FirstEnergy Corp.

📍 Akron, OH

- Optimized & automated daily PJM load settlements review & upload processes reducing work-hours by ~20% while all but eliminating the potential for manual data processing errors

2019  
|  
2015

### Analyst, Rates & Regulatory Affairs

FirstEnergy Corp.

📍 Akron, OH

- Revolutionized the weather normalization methodology as part of the above MBU
- Optimized the month-end Metered-but-Unbilled (MBU) accounting process
- Board Member of business resource group for quants: "The Quant Group"
- Co-founder of the *Purpose, Power, & Perspective* Executive Leadership group
- Developed & published the FirstEnergy Corp. Data Science & Machine Learning Playbook for Executive Leadership



## CONTACT INFO

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## SKILLS & INTERESTS

Data Science	Statistics	R
Statistical Learning	Kaggle	
Time Series	Mapping	Git
Automation	SAS	Shiny
Data Visualization	Python	
Process Improvement		
Mathematics	Forecasting	
Simulation	Econometrics	

Highly skilled in R, Shiny, SAS, Git, & LaTeX with an analytics focus on time series & stochastic modeling of weather, energy, & pricing



## TEACHING EXPERIENCE

2019  
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2017  
  
2014  
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2013

### **Economic Forecasting & Time Series Analysis in R**

Assistant Lecturer, *The University of Akron*

📍 Akron, OH

### **Econometrics & Senior Project**

Graduate Teaching Assistant, *The University of Akron*

📍 Akron, OH



## EDUCATION

2014  
  
  
  
2013

### **Master of Arts, Economics**

The University of Akron

📍 Akron, OH

### **Bachelor of Sciences, Mathematics**

The University of Akron

📍 Akron, OH