MATTHEW G. HOFF

Manager, Risk Control & Analytics

💼 PROFESSIONAL EXPERIENCE

Present
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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
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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
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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
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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 | 2017
Economic Forecasting & Time Series Analysis in R
Assistant Lecturer, *The University of Akron*   Akron, OH

2014 | 2013
Econometrics & Senior Project
Graduate Teaching Assistant, *The University of Akron*   Akron, OH

EDUCATION

2014
Master of Arts, Economics
The University of Akron   Akron, OH

2013
Bachelor of Sciences, Mathematics
The University of Akron   Akron, OH

SOFTWARE PUBLICATIONS

2023
R Package: eia
Available on CRAN with docs on ROpenSci   Akron, OH