

Matthew M. Harding

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EDUCATION

Georgetown University

Master of Science: Data Science and Analytics

Spring 2023

Georgia Institute of Technology

Bachelor of Science: Mechanical Engineering

Graduated with Honors

GRE: Quant: 163, Verbal: 159

Spring 2019

Harvard Extension School Certificate in Data Analytics

Spring 2021

EXPERIENCE

Northrop Grumman – Facilities Engineer

2020-2021

- Managed facilities projects in Northrop Grumman buildings & labs to support business functions
- Collaborated with vendors to implement complicated and custom lab designs
- Solved delays and budget issues in weekly progress reports to management
- Influenced team design reviews to optimize designs and scheduling for multi-million-dollar projects

Northrop Grumman - Associate Equipment Engineer

2019-2020

- Took lead on the re-installation of equipment as a part of a project team strategically relocating a whole lab
- Created and implemented plans for the installation/relocation of complicated semiconductor equipment
- Aided in design and implementation of floor plans using AutoCAD

Northrop Grumman - Equipment Engineering Intern

Summers 2017, 2018

- Led the demolition and rerouting of piping as part of \$50 million building renovation
- Developed preventive measures and processes to limit future tool breakdowns by analyzing data of tool downtime
- Managed moves, installations, and upgrades for valuable equipment within labs

Shumate Mechanical – Sales Engineering & Drafting Intern

2016-2017

- Prepared HVAC shop drawings with drafting team for field implementation
- Drew graphical interface layouts for integration with HVAC automation systems
- Estimates and proposed work scopes and costs for construction jobs ranging from \$25k - \$500k
- Engaged with vendors and customers to build relationships and solve project related issues

ASI Constructors Inc. - Engineering Intern

Summer 2015

- Negotiated purchases for project materials and services with vendors to save costs on projects
 - Improved project management by supporting project team on site in Alabama for 5 weeks
 - Designed a drawing in AutoCAD to allow the project team to visually track the project completion progress
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SKILLS

Programming: Python (Pandas, NumPy), R (Tidyverse), Javascript, HTML, MATLAB, Django

Modeling & Machine Learning: Regression, Classification Regression, Lasso, Ridge Regression, Dimension Reduction, Unsupervised Learning, Decision Trees, Naïve Bayes, SVM, Neural Networks

Visualization: ggplot2, Matplotlib, Seaborn, Plotly, Leaflet, R Shiny

Other Skills: Data & Digital Storytelling, Programmatic Reporting, GitHub, Technical Writing, Presenting

Affiliations: Lambda Chi Alpha, American Society of Mechanical Engineers, Student Alumni Association

LEADERSHIP & ACCOMPLISHMENTS

BRAVO NGC Recognition for Excellent Performance

2020

United States Security Clearance – Secret

2018-2021

Athletics Chair for Lambda Chi Alpha

Spring 2017 – Fall 2017

References: Jack Leek: Jack.Leek@ngc.com (443)-812-6391

Fergus Butler: Fergus.Butler@ngc.com (410)-765-6485