

Alfredo Sotelo

Tucson, Arizona | | sotelo.engineer@gmail.com

Objective

Experienced Electrical Engineer Supervisor with an MBA, +10 years of experience in electrical distribution at a utility company, and Data Science skills seeking to leverage my technical and professional expertise to motivate and grow employees, as well as, to use my skills at the company for mutual growth and success.

Education

MASTER OF SCIENCE IN DATA SCIENCE | JUNE 29, 2022 | GRAND CANYON UNIVERSITY

- Current GPA: 4.0
- Classes Taken: Advanced Probability and Statistics, Regression Analysis, Predictive Modeling, Machine Learning for Data Science, Neural Networks and Deep Learning, and Research Methods.
- Currently only need the following classes to finish degree: Data mining, Data Products, and Capstone.

MASTER OF BUSINESS ADMINISTRATION | 2018 | UNIVERSITY OF ARIZONA GLOBAL CAMPUS

- GPA: 4.0
- Concentration: Organizational Leadership
- Member of the Golden Key International Honor Society
- Member of the Sigma Delta Honor Society

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING | 2006 | UNIVERSITY OF TEXAS AT EL PASO

- Concentration: Computer Engineering
- Learned several programming languages to integrate hardware with software.

Data Science Skills & Abilities

PROBABILITY AND STATISTICS

- Working knowledge of probability, distributions, statistical methods and data analysis.

PREDICTIVE MODELING

- Able to apply and use the following algorithms: linear regression, multiple linear regression, logistic regression, decision trees, classification and regression trees (CARTs), random forests, Naïve Bayes classification, and K-Means clustering,

MACHINE LEARNING

- Able to apply supervised and unsupervised machine learning algorithms to various data sets to perform exploratory analysis, dimensionality reduction, clustering, regression, classification, and identify structure in data.

NEURAL NETWORKS AND DEEP LEARNING

- Familiar with artificial neural networks (ANN), convolutional neural networks (CNN), and recurrent neural networks (RNN). Applied deep learning algorithms to perform text and image recognition.

PROGRAMMING LANGUAGES AND PROGRAMS

- Familiar with C, C++, Java, HTML, R, Python and Tableau.

Experience

DISTRIBUTION SUPERVISOR | TUCSON ELECTRIC POWER | MAY 2012 - PRESENT

- Supervise, coordinate, provide leadership to, and facilitate meetings involving the following subjects: safety, customer service, training, workflow allocation, quality control, staff scheduling, performance reviews and employee/union relations.
- Administer the work group budget to ensure cost-effective use of resources, estimate costs, explain variances, and provide data to upper management to be able to hire new employees.
- Coordinate and interface with other TEP groups to ensure activities are scheduled effectively, on budget and on time.
- Employ servant-leadership techniques to provide direction to employees to resolve technical questions while empowering them to seek solutions on their own.
- Review area operations to identify process and procedure improvements and implement a scheduling process which allows for better customer service and a more balanced workload.
- Implemented and designed a paper-less tailboard system that employees could use on their tablets and on their iPhones.
- Programmed various excel VBA spreadsheets to be able to automate, filter and sort data, create pivot tables and email the information to the workgroup, which resulted in hours of time-savings.
- Performed linear regression models to predict employee output to forecast additional resources needed.

DISTRIBUTION DESIGN ENGINEER |XCEL ENERGY| AUGUST 2007 – APRIL 2012

- Successfully utilized company resources and software to produce various calculations, such as, load demand, transformer loading, primary and secondary voltage drop, tension-pulling calculations, load diversity and many others in order to issue proper equipment to maximize equipment efficiency and reduce company costs.
- Used SmallWorld 2003, AutoCAD 2006 and Passport to create electrical distribution designs for various 15kV, 4kV and 33kV systems.
- Worked closely with Area Engineers to create designs that included step-down transformer banks, regulators, OCR's, and gang-operated switches to ease distribution line load and provide adequate protection from stray voltages, fault currents and other anomalies.
- Designed line extensions, feeder extensions, substation getaways, temporary-power feeds, underground distribution and feeder, and other designs to provide power to clients and to improve system performance.
- Selected to take part in SmallWorld Train-The-Trainers program, which led to assisting in training the Amarillo Distribution Design group on how to properly use SmallWorld 2003
Prepared and wrote easements to allow distribution conductor to be placed in customer's private property.

References

References are available on request.