



Michael Brian Manuel

Electrical Engineer/Data Science Specialist

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025 Franco St. Bagbag Novaliches
Quezon City, National Capital Region

Summary

Motivated and results-driven Analyst with proven track record in engineering, data analytics and process mapping. Proven ability to identify business needs and develop valuable solutions to drive accuracy and process efficiency. Drives business effectiveness through making recommendations based on data findings.

Work Experience

Village Engineer

Ayala Southvale Village Homeowner Association Inc. • Las Pinas City, National Capital Region

03/2020 - 03/2021

- Quickly learned new skills and applied them to daily tasks, improving efficiency and productivity.
- Drove operational improvements which resulted in savings and improved profit margins.
- Used coordination and planning skills to achieve results according to schedule.
- Participated in continuous improvement by generating suggestions, engaging in problem-solving activities to support teamwork.
- Monitoring all the house construction on the village and gathering data to predict how long these construction finish, to maximize the time deposit investment on the construction and contractor bond by the owner and contractor.
- Monitoring all the maintenance and operation of the equipment of the village.

Water Supply Operation Engineer

Maynilad Water Services, Inc. • Quezon City, National Capital Region

02/2017 - 02/2020

- Used critical thinking to break down problems, evaluate solutions and make decisions.
- Managed quality assurance program, including on-site evaluations, internal audits and customer surveys.
- Eliminated downtime and maximized revenue by providing top project quality control.
- Maintain the reliability of the pump station and boosters.
- Monitoring and analysis of all data gathered by the plant operator and the sensor for predicting the life expectancy of equipment to avoid equipment downtime.
- Creating maintenance procedure that will help to, improved the process flow of the maintenance productivity of the plant.
- Conducting power quality data analysis, to monitor the quality of the power that supply on the power provider and also minimized the power failure on the plant.

Instructor 1

Polytechnic University of the Philippines • Manila, Metro Manila

11/2016 - 05/2018

- Applied various teaching aids to minimize learning gaps and effectively instruct and motivate students.
- Evaluated and revised lesson plans and course content to facilitate and moderate classroom discussions and student-centered learning.
- Monitored student progress through test administration and adapted learning plans to optimize progress.
- Optimized learning plans, quantifying student progress through quizzes.

- Teaching Electrical engineering Major Subject (DC circuits, AC Circuits and Shop Practice)
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Skills

- Data Analysis Skills
 - Database Management
 - Probability and Statistics
 - Engineering Analysis
 - Data Visualization
 - Python Programming
 - SQL
 - Research & Development
 - Data Mining
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Education

Bachelor of Science in Electrical Engineering

Polytechnic University of the Philippines • Manila, Metro Manila

03/2016

- A RENEWED CALL FOR EXCELLENCE (2ND PLACED)ANNUAL
 - EE THESIS EXHIBIT (1ST PLACED)
 - CE EXALTS @ 36: A ZENITH OF VICTORIOUS GLORY, GEAS QUIZ BEE2015 (3RD PLACED)
 - IIEE: 2ND CLASH OF THE INTELLECTIN ESAS (QUALIFIER)
 - IIEE: REGIONAL QUIZ SHOW 2015(QUALIFIER)
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Computer Skills

- Python Programming
 - Tableau
 - Microsoft Office (Excel, Word, PowerPoint, etc.)
 - Autocad (2d)
 - IBM DB2 and SQL
 - Mathplotlib
 - Power BI
 - Pandas, Numpy, Jupyter Notebook and Scikit-Learn.
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Accomplishment

- Used Microsoft Excel to develop maintenance operation tracking spreadsheets.
 - Creating visualization and statistical model for the monitoring of the condition of motor and pump, using regression.
 - Creating visualization model for the monitoring of all the maintenance work for 52-week plan.
 - Creating visualization model for the time frame of all construction on the village.
 - Registered Electrical Engineer Exam: Mathematics = 89%, Engineering Science = 84% and Electrical Engineering = 84%
 - Currently Scholar of AT&T Believe Scholarship
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Certifications

- Licensed Electrical Engineer
 - IBM Professional Data Science Certificate - May 2020
 - Google IT Automation with Python Professional Certificate
 - Google IT Support Professional Certificate
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Affiliations

- International Association Engineer (IAEng)
 - IIEE Philippines
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Character Reference

- John Vincent Quilapio - john.quilapio@ringcentral.com / 09498865563 - previously Co-Worker
- Stephane Godito - stephane.godito@arcadis.com / 09154042476 - Co-Worker of last project.