

Michelle Kae Celine Jo-anne Bantugon
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A forward-thinking Data Analyst with a Master's in Business Analytics, dedicated to data-driven decision-making, optimizing resource allocation, and ensuring on-time performance. Combining expertise as a Process Automation Engineer, I specialize in streamlining workflows and operational efficiency through skills in Process Improvement, Agile Project Management, Graphic Design, and Strategic Planning

Education

Master of Science in Business Analytics

08/2024

Hult International Business School | San Francisco, California
Dean Lister Fall 2023

- Relevant Courses: Data Management & SQL, Business Statistics, Python for Data Analysts, R, Tableau, Business Analysis with Structured/Unstructured Data, Data Visualization, Visualization Tools, Analyzing Data Sets, Business Modeling and Optimization, Tableau, Machine Learning Algorithms, Predictive Modeling
- Project on Wedding Vendors with Sustainable Practices: Database Development, Collection, Cleaning, Transforming, Database design and entity-relationship model, Designing Data Models, SQL Analysis, Report and Dataset Generation, Python Analysis, Business Case Analysis, Insights and Recommendations
- Text Adventure Game Development (Escape Room inspired) using Python, Kaggle Competition for Machine Learning (Rank 6th among class)

Bachelor of Science in Chemical Engineering

06/2018

Batangas State University | Batangas, Philippines

- Concentration in Energy, Engineering Computation, Process Analysis and Control, Transport Processes Environmental, Manufacturing Design; Minored in Economy, Laws and Ethics, Process Safety, Statistics, Chemistry, Computer Programming

Relevant Experience

JG Summit Olefins Corporation | Batangas, Philippines

03/2019 to 08/2023

Associate Process Automation Engineer. Valued process control engineering support to the Polymer Plant for safe and reliable operations; Developed and implemented basic and advanced engineering solutions; Initiate and administer changes in technology and system upgrade; Executed and supported engineering assessments; Spearheaded project commissioning (server engineering and configuration, hardwiring, logic implementation) and execution (Factory Acceptance Test and Site Acceptance Test); Led Agile Projects

- Achieved **100% closure of punch items and modifications**, resulting in on-time completion of New and Expansion Projects for Polypropylene Plant and Outside Battery Limit (OSBL) jointly with EPC teams, including Tecnimont, JGC Philippines Joint Ventures (TJJV), Fluor Corporation, and Honeywell Malaysia with a **remarkable project savings amounting to \$2,062,062.79**
- Supervised Alarm Performance improvements across four sections in Polymer Plants, resulting in a **remarkable reduction of alarm counts by 31% and 57% for three key plants**, shifting the system from an overloaded state to a more responsive and stable configuration
- Collaborated and programmed High-Performance Human Machine Interface (HPHMI) using VB Script and Graphics Editor for Flare Monitoring Dashboard and Calculation across four plants as squad member using Agile Methodologies **yielding 30% reduction in hydrocarbon losses** and increased operational efficiency by implementing and administering. Additionally, played a pivotal role in improving process control by

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enabling Panel Engineers to monitor and manage **Total Monomer Ratio (TMR)** with a **calculated accuracy rate of 95%**

Relevant Project

JG Summit Olefins Corporation | Batangas, Philippines

Agile Project Owner, Conversion of Polypropylene Graphics to HPHMI

Batangas, Philippines | 01/2023 to 08/2023

- Headed successful High-Performance Human Machine Interface (HPHMI) Conversion project in a Polypropylene Plant, utilizing Agile Methodologies to enhance operator situational awareness, reduce human errors, and optimize page call-up access
- Attained an impressive **18% increase in abnormal detection rates within a month** of HPHMI implementation, significantly improving plant efficiency. Successfully **reduced the average detection time from 8.56 minutes to a highly efficient 6.99 minutes**, demonstrating strong problem-solving skills and operational excellence
- Demonstrated expertise in streamlining industrial processes, implementing innovative solutions, and leveraging agile methodologies to drive operational improvements, all while showcasing strong time management skills that have played a key role in contributing significantly to the organization's success
- Showcased excellent communication skills with cross-functional teams and stakeholders, facilitating negotiation and presentation of project outputs to convey project outputs and insights effectively

Additional Experience

RS Innovators Championship

Two Pancras Square, Kings Cross, London | 03/2023

- Got 2nd Place Award for Pili Seal Team

SCG Bangkok Business Challenge at Sasin Global Competition

Bangkok, Thailand | 07/2022

- Represented Pili Seal from the Philippines competing against 124 teams
- Play-off Round Semi-finalists
- Sustainability Award Runner-Up

Asia School of Business and MIT Sloan Management 101K Entrepreneurship Competition

Kuala Lumpur, Malaysia | 04/2022

- Competed and co-presented in Pili Seal invention against 200 teams
- Included in top 12 Semi-finalist
- Third Place Awardee

Technical Skills

Software: Microsoft Excel; R; SQL; Tableau; Python; Canva; Honeywell EPKS/PLC/ESD, UNIPOL Advanced Process Control System, Plant State Suite (Hexagon), Allen-Bradley ControlLogix PLC, Honeywell HMI Web Builder, SAP S/4 HANA, SQL Server Management Studio, Networking with Windows Server 2016

Certifications: Registered Chemical Engineer (Professional Regulation Commission), Introduction to Intermediate SQL/Python/R/Statistics (Data Camp)

Languages: English (Native), Filipino (Native), Spanish (Beginner)