

# Mary Kristine T. Brizuela

## Junior Data Analyst | Registered Chemical Engineer

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An aspiring Data Analyst with a practical experience in production efficiency, informed decision-making, and industrial project analysis. Currently pursuing Google Data Analytics and ExcelHelpline Analytics Bootcamp to solidify skills in data cleaning, visualization, and basic programming. Equipped in problem-solving and critical thinking. Committed to contribute analytical insights and eager to learn from experienced professionals in the field.

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### Key Skills

- **Data Analysis & Visualization:** Excel & Google Sheets spreadsheets (Pivot Table, VLOOKUP, Conditional Formatting), SQL (basic)
  - **Technical Skills:** Process Engineering, Statistical Analysis, Data Collection, Process Optimization
  - **Programming:** Python (beginner)
  - **Communication:** Technical Reporting, Presentation Skills, English Proficiency
  - **Project Management:** Multitasking, Team Coordination, Leadership
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### Professional Experience

#### Process Engineer

**Aug 2023 - May 2025**

**Rezcoat Inc. (Boysen Group of Companies)**

*Trece Martires City, Cavite, Philippines*

- Collected, encoded, and analyzed production data to monitor efficiency and identify process improvements.
- Processed water-based resins through large-scale emulsion polymerization techniques, supervised production shifts and planned personnel activities to ensure insight-driven decision-making and operational excellence.
- Handled the testing of emulsion samples and conducted resin property testing, maintaining high-quality standards by data comparison.
- Managed troubleshooting during equipment failures or batch incidents and identified root cause using variables and collected data.
- Prepared data-driven reports to track key performance indicators and production metrics.

#### Design Engineer

**Jan 2023 - July 2023**

**Euro Products, Inc.**

*Los Baños, Laguna, Philippines*

- Conducted data analysis for water treatment installations, including multimedia filter, iron removal filter, activated carbon filter, water softener, nanofiltration, and reverse osmosis technology, to guarantee efficient separation process and impurity removal.
- Optimized filtration and purification system designs based on project requirements.
- Analyzed sales data, cost sheets, and financial projections using spreadsheets for effective decision-making.
- Monitored project data, including material costs and labor requirements, to improve project efficiency.
- Performed wastewater sample analysis, utilizing data collection and interpretation to ensure compliance with standards.

#### Intern

**Jun 2021 - Aug 2021**

**Salinas (IM) Corporation**

- Proposed design optimizations for large-scale production and contributed to process design through data collection and analysis.

# Certifications & License

## **Data Analytics Courses**

- ExcelHelpline Data Analytics Bootcamp
- Google Data Analytics Professional Certificate
- Practical Application of Data Analysis in Chemical Engineering Industry (May 2025)

## **Philippine Chemical Engineering Licensure Examination**

- Board Passer (Oct 2022)
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# Education

## **Bachelor of Science in Chemical Engineering**

### **Bicol University College of Engineering**

**Aug 2018 - Jul 2022**

- A scholar of the Department of Science and Technology (2018-2022)
  - Plant Design: Methanol from Syngas Production Project
- Ran simulations for efficient methanol production, utilizing process data to optimize plant design.
- Thesis: Oxidative treatment of methylene blue via heterogeneous activation of percarbonate using Putsan clay-supported nano zero-valent iron
- Conducted experimental analysis and data reporting for dye wastewater treatment.

## **Science, Technology, Engineering, and Mathematics**

### **Bicol University Integrated Laboratory School**

**Jun 2016 - Apr 2018**

- With high honors