KRIS PARKER

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EDUCATION

Georgia Institute of Technology
MSc. Analytics
4.0 GPA   **2021**

University of Saskatchewan
B.Eng Chemical Engineering   **2012**

EXPERIENCE

Canpotex
Supply Chain Manager   **2020 – Present**

- Achieved savings of ~$6.3M USD by leveraging supply chain analytics, industry and market benchmarks to negotiate, select and manage third party service providers in North America and over 50 international markets

- Developed various machine learning models for predicting quality claims in overseas markets; identified factors strongly correlated with claim risk to develop strategy for reducing quality claims and improving product quality throughout supply chain

- Leveraged machine learning and analytics to manage and improve global Quality portfolio and client-facing program; reduced annual product quality claims by ~80% (~$8M USD)

Nutrien
Process Engineer   **2017 – 2020**

- Achieved annual savings of >$2M and reduction in GHG emissions of >10,000 tonnes CO_2e through coordination and execution of data collection, analysis and optimization campaigns for mining, milling and product loadout; responsible for data driven optimization of plant throughput and product quality

- Lead process engineer for milling process and >40 operators

- Reduced product quality complaints from 57% of all tonnes to ~3%; established statistical quality monitoring and control system for ensuring >2M tonnes meets all required specifications for both domestic and international markets

- Designed and developed various data collection and reporting systems for ESG and production data for various stakeholders across company utilizing a combination of PI, SEEQ, Foxboro DCS, Tableau and PowerBI

Cameco Corporation
Metallurgist   **2014 – 2017**

- Developed and implemented SQL database for ESG and production data analysis and monitoring; successfully led operation to meet all tailings and emissions management targets required for regulatory approval from 2014-2017

- Project manager for variety of projects intended to increase mill recovery, reduce production and operating costs, reduce emissions and commission new process equipment

- Responsible for overall performance of mill processes and product quality; guided mill to meet and exceed production targets for 2014-2017 for a total production of 9.5M lbs yellowcake

Nutrien
Process Engineer   **2013 – 2014**

- Project manager for variety of projects intended to increase mill recovery, improve product quality

- Supervised mill reagents area and operators; developed predictive models for reagent inventory levels to manage delivery schedule and eliminate disruptions to process resulting from reagent shortages

- Troubleshoot technical problems to reduce down-time, ensure production and safety targets met

RELEVANT SKILLS AND CERTIFICATIONS

PROGRAMMING LANGUAGES

- PYTHON (JUPYTER, VARIOUS OTHER IDE'S) – PANDAS, NUMPY, SCIKIT-LEARN, STATSMODELS, ETC.

- R (RSTUDIO) – GGPLOT, DPLYR, ETC.

- SQL

- VBA

DATA VIZ

- PYTHON/R – MATPLOTLIB, GGPLOT2, SEABORN, ETC

- TABLEAU

- POWERBI

VOLUNTEER EXPERIENCE

Tutor – Frontier College   **2016-2019**
Tutoring services for GED preparation and trades certifications for at-risk youth and correctional facility inmates