BIANCA BISCHOFF

Lehi, UT | 425-281-4330 | bia.bischoff@gmail.com | https://www.linkedin.com/in/bianca-bischoff-msc-06b894213/ & https://github.com/BiaBischoff

DATA ANALYST I

Enthusiastic and self-motivated person, who is diverse in experience and working towards transitioning into a career in Data Science. Over ten years of experience in Chemical Engineering with proven ability to understand problems and find solutions in collaboration with technical and non-technical clients.

MySQL | Python | Tableau | Machine Learning | Classification Algorithms | Regression Algorithms | Forecasting Algorithms | Unsupervised Learning Algorithms | Supervised Learning Algorithms | Time Series Algorithms | Sentiment Analysis | HTML | CSS | JavaScript | Critical Thinker | Self-Starter | Investigative | Strong Communication Skills | Data Driven | Detail Oriented | Adaptable | Committed | Training | Project Management

EXPERIENCE

CAPSTONE TECHNOLOGY   2007-2011

Senior Chemical Engineer

- Developed all operations and management training content and delivered training for all required employees (around 200 people). Training delivered on a course of 2 weeks to accommodate shift work of employees and managers
- Participated on final benefit study that concluded the company was saving roughly $200K a year
- Delivered ongoing daily technical training for the entire operation's team over the course of 12 months while responsible for managing and troubleshooting controllers on site.
- Administered all on site coordination and interaction with the client
- Implemented a series of advanced control and optimization projects in the pulp and paper industry with emphasis on process control and automation of different parts of the plant like the furnace, lime kiln and paper production
- Organized all the design, testing, implementation and commissioning of all controllers at Longview Fibre Company (Longview, WA) and Kimberly-Clark (Everett, WA). The solution was delivered using Capstone Technology's software MACS (MACSEstimator, MACSSuite and MACSOptimizer)

ASPEN TECHNOLOGY   2005-2006

Senior Chemical Engineer – Professional Services America

- Participated in a $5.5-million dollar rollout of Advanced Process Control and Real Time Optimization for the largest Petrochemical Producer in Latin America. The project was delivered 2 months ahead of schedule and under budget.

- Key member of the Advanced Process Control team for a world scale olefins unit. Implemented the design, plant testing, model development and commissioning of the following controllers, Furnaces, Quench Tower, Cold Side, and Feed Maximization. The solution was delivered using DMCplus, Aspen Watch, IP.21, Smart Step, Spyro for APC.
- Administrated overall site coordination. The team consisted of about 20 AspenTech engineers. I ensured that everything was ready for the team when they arrived on site was a large and complicated effort. My responsibility was to work with the customer to ensure that instrumentation, feed rates, and overall unit readiness was in a state to maximize the productivity of the team while on site.
- Developed the training course for plant operations for all the DMCplus controllers implemented in the Olefins unit– CBOST (Computational Based Operator System Training).
- Executed and delivered all training materials during the implementation of the controllers to the production engineering staff and operators.
- Cooperated in a benefits analysis of a methanol unit in Argentina. During the course of the study, I conducted site interviews, collect important process data, determined key areas of benefits, wrote benefits report and design document. The customer proceeded with the project.

CHEMTECH – A Siemens Company   2000-2003

Intern

- Took part of the Process Control and Automation of 10 Pilot Units for Petrobras (CENPES research center). I implemented FIX32, a supervisory system, for each pilot unit to serve as an interface communication layer between the operation staff and field instrumentation. FIX32 was installed on a CD600 DCS (a Petrobras technology) and programming them was required to implement the solution.

PUC-RJ – Pontificia Universidade Catolica do Rio de Janeiro   1998-2000

Student Teacher

- I was an Assistant Teacher in the following courses: General Chemistry, Calculus III - IV.
I held weekly math meetings to review course material and tutor students on challenging problems and concepts to practice lessons learned. I conducted one on one mentoring of up to 20 students simultaneously and graded all homework.

EDUCATION

Tech-Moms Utah (on going training)

Tech-Moms is a nonprofit organization that helps people transition into technology careers and find more successful employment. During my period with Tech-Moms I learned HTML, CSS and JavaScript

Master of Science – Data Analytics
June 2021 – March 2022 Western Governors University (WGU)

Udemy.com Courses Completed:

SCRUM for Beginners + SCRUM Master Certification Preparation
SQL for Beginners: Learn SQL using MySQL and Database Design
The Data Science Course 2022: Complete Data Science Bootcamp

Master of Science - Chemical Engineering
Universidade Federal do Rio de Janeiro – UFRJ/COPPE

Bachelor of Science in Chemical Engineering
Pontificia Universidade Católica do Rio de Janeiro, Brazil

PUBLICATIONS

XV COBEQ (Brazilian Congress of Chemical Engineer), 2004: "Análise da Estabilidade de Sistemas Dinâmicos Não Lineares Descritos por Equações Algébrico Diferenciais" – "Stability Analysis of Non Linear Dynamic Systems Described by Differential- Algebraic Equations" – 2004

16th European Symposium on Computer Aided Process Engineering and 9th International Symposium on Process System Engineering, 2005: "Stability Analysis of Differential-Algebraic Equations in AUTO_DAE"

LANGUAGES

English and Portuguese (native)

REFERENCES

Jori Derrey
Program Mentor – College of IT Western Governor's University
jori.derrey@wgu.edu

Dan Smith
Vice President – Capstone Technology
Dan.smith@capstonetechnology.com