

AHMED L. RASHED

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Professional Summary

Detail-oriented BI engineer/developer who excels in crafting complex documents, drill-down reports, calculated and aggregated objects, semantic layers, and dashboards. Adept at reverse engineering previously written SQL code, and creating stored procedures and triggers. Able to collaborate with both technical and business teams.

Technical Skills

Data Analytics: EDA, SQL, Python, Tableau, Power BI (PowerQuery, DAX), MicroStrategy Workstation | Developer.

Data Engineering: ETL, MySQL, SQL Server, Azure Data Studio | Data Factory | Databricks | Synapse.

Business Intelligence: Collaboration, Requirements Gathering, Root-Cause Analysis, Process Improvement/Execution.

Project Management: MS Project, Agile, Kanban, Scrum, JIRA, Confluence, BitBucket, Git.

Education & Certification

[Microsoft Certified: Azure Data Engineer Associate](#)

Master of Arts – Physics - Bryn Mawr College

[Microsoft Certified: Azure Data Fundamentals](#)

Bachelor of Science - Applied Physics - UMBC

Work Experience

Senior BI Developer

SHERWIN WILLIAMS

Cleveland, OH

06/2024 – present

Designed, debugged, and automated patches and configurations for Tableau and MicroStrategy Developer suites.

- Developed and updated enterprise MicroStrategy dashboards for quality, reliability, and efficiency.
- Designed and implemented complex reports and OLAP cubes for critical sales rep reporting.
- Collaborated across teams to translate business needs into technical solutions.
- Assisted QA and Data Engineering teams in testing and validating Netezza to Snowflake migration project.

Test Analytics Engineer

GLOBALSTAR

Covington, LA

02/2024 – 04/2024

Designed, debugged, and automated TestStand production test deployments and database connectors. Completed deliverables in only two months instead of the allocated six months, saving time and money for Test Ops team.

- Optimized MySQL production queries, reducing run-times from ~ 50 minutes to ~ 5 minutes.
- Revamped manufacturing Power BI dashboards with KPI metrics and automatic cleaning of incoming data.
- Collaborated with data engineers to migrate databases from onsite servers to AWS cloud.

Independent Consultant

BADGER METER

Milwaukee, WI

05/2023 - 11/2023

- Picked up C# and MS Visual Studio on-the-job to reverse-engineer communication drivers from C# into an extensible DQMH LabVIEW framework.

Data Analytics Consultant

HENNY PENNY

Eaton, OH

12/2022 – 08/2023

Designed, developed, and maintained robust test systems, ensuring reliability and efficiency. Translated technical concepts for non-technical stakeholders, ensuring project goals were understood across different departments.

- Extracted and analyzed three-years-worth of operational data to uncover trends and inefficiencies using python, pyodbc, pandas, and SQL, presenting opportunities for improvement to stakeholders.
- Created python utility to extract and transform data from TestStand SQL database schema into flat CSV files. Reduced script to a single file, building a stand-alone executable for end-users to [download](#).
- Created & deployed Statistical-Process-Control [dashboards](#), allowing manufacturing engineers to track production KPI's and Capacity Utilization and improving first-pass-yields from 75% to 95%.

BI Developer Consultant GRANVILLE PHILLIPS Broomfield, CO 09/2022 - 01/2023

Picked up NI TestStand on-the-job, becoming the resident expert in two months. Led the implementation of a new data analysis system into existing stations, resulting in a 20% increase in data accuracy.

- Performed exploratory SQL analysis to identify patterns in ion-gauge PCB telemetry data, translating the factory test data into easy-to-understand reports using Tableau.
- Collaborated with Mfg. engineers to identify trends and track processes, boosting yield from 65% to 99%.
- Re-engineered TestStand Sequential and Batch processes, reducing process time by 35%.

Principal Test Engineer MKS INSTRUMENTS Methuen, MA 03/2021 - 06/2022

Managed test station software projects using Agile JIRA workflows and version control, ensuring quality and reliability of software through comprehensive regression testing and streamlined reporting processes.

- Picked up SQL and Python on-the-job to drive enhanced data visualizations for TechOps & Business Unit teams, preventing ~ \$50,000 in lost annual revenue by catching defects before they leave the factory floor.
- Created visually impactful dashboards and executive data visualizations in Tableau to track production yields and failure modes, saving test engineers over 10 hours weekly in diagnostics and manual reporting.
- Led the development and rollout of internal real-time Statistical Process Control system to the production floor, including Xbar & R Charts, Gage R&R reports, and Cpk and KPI metrics.

Senior Test Engineer MKS INSTRUMENTS Methuen, MA 03/2011 - 06/2022

Incorporated extensive upgrading and overhauling legacy product lines. Rewrote LabVIEW test software architecture into robust, data-driven, user-friendly applications, improving quality, reliability, and efficiency.

- Connected Tableau dashboards to centralized data-pipeline for real-time production data tracking, improving average time-to-bug-fixes by 20% and highlighting time-sinks in factory workflows.
- Developed LabVIEW web service drivers to connect various product lines to custom database (Visual Factory), allowing engineers and line operators to catch process issues in hours rather than days.
- Sustaining production by resolving issues on the floor. Regularly perform Kaizen blitz and FMEA analysis to find root causes of test failures, implementing short- and long-term solutions using Cpk and KPI metrics.
- **Skills Used:** Business Intelligence (BI), Agile Methodologies, Data Mining, Data Cleaning, Data Visualization, Statistical Data Analysis, Extract, Transform, Load (ETL), Tableau, Software Development Analytics, Ad Hoc Analysis, Business Analysis, Test Automation, Statistics, Agile Project Management

Test Engineer MKS INSTRUMENTS Methuen, MA 06/2008 - 08/2011

Maintained test software to ensure the quality of products, resolving stand problems to keep production moving. Creating, troubleshooting, and updating LabVIEW test software as needed.

- Cleaned, transformed, and prepared data for visualization, ensuring accuracy, consistency, and relevancy.
- Standardized data collection and storage, deconstructing data silos and enabling seamless data sharing across departments, improving pressure sensor and flow meter production yield from 88% to 95%.

Freelance Projects

Customer Retention DAX Report: [CRD GitHub Link](#) 04/2024

Extracted and transformed data using Power Query. Created time-intelligence DAX measures to calculate rolling 90-day and 3-month repeat customer dashboard. Published visualization to **Power BI web link** [HERE](#).

SQL-Tableau EDA: [C19 GitHub Link](#) 09/2023

Explored and visualized COVID's most affected countries, highest death rates, and fastest vaccination rates using Azure Data Studio, Jupyter Notebook, SQL, and Tableau. Published visualization to **Tableau Public link** [HERE](#).