

HENRY DAVENPORT

Logistics Innovation | Data Analytics

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SUMMARY

Data-driven engineering leader delivering impact through innovation, problem-solving, & process optimization. Combines advanced analytics expertise with strong leadership, turning technical concepts into actionable insights.

CORE COMPETENCIES

Business Intelligence
Data Engineering
Process Automation
Web Development
Machine Learning
Project Management

Data Analytics & Visualization
Data Modeling
Internet Scripting
ETL/ELT Processes
Agile Development
Lean Six Sigma

EMPLOYMENT HISTORY

Logistics Group Leader, Data Analytics & Quality, BOSCH

OCTOBER 2024 – PRESENT

Lead cross-functional team driving supply chain optimization and quality excellence across 3 divisions.

- **Pioneered IoT data collection initiative** for time-sensitive shipments, preventing an estimated \$100K in losses through predictive alerts and proactive intervention
- **Deployed enterprise BI solutions** serving 400+ stakeholders with real-time KPI dashboards integrating data from ERP (SAP) and quality systems, improving decision-making speed and accuracy throughout the organization

Logistics Group Leader, BOSCH

JUNE 2023 – OCTOBER 2024

Managed engineering team of 8 professionals focused on digital transformation of logistics and supply chain processes in automotive manufacturing environment.

- **Achieved 95% On-Time Delivery (OTD) Rate**, exceeding industry benchmark, through data-driven logistics optimization
- **Built interactive Tableau dashboards** tracking 15 critical supply chain KPIs, enabling proactive issue resolution and reducing expedited shipping costs by \$200K annually
- **Reduced stockouts by 20%** implementing machine learning models for demand forecasting and dynamic safety stock optimization across 500+ SKUs

Senior Engineer, Supervisor, BOSCH

DECEMBER 2019 – JUNE 2023

Managed a team of 5 professionals responsible for manufacturing engineering and MES applications within the high-pressure direct injection (HDEV6) department

- **Directed 2022 North American Jishuken Cycle** leading focused improvement projects that delivered \$500K+ in savings through productivity and cycle time optimization
- **Deployed AI-powered defect detection system** improving First Pass Yield by 10% and avoiding \$110K annual scrap costs through real-time quality analytics

- Generated \$1.2M+ annual savings through systematic process automation, predictive maintenance implementation, and data-driven efficiency improvements across 2 production lines
- Increased OEE from 68% to 82% implementing real-time production monitoring and predictive analytics
- Managed \$30M capital project portfolio including installation of automated high-speed assembly lines with integrated data collection capabilities

Manufacturing Engineer, BOSCH

AUGUST 2015 – DECEMBER 2019

Drove operational efficiency and process development in high-pressure direct injection departments through data analysis and continuous improvement methodologies.

- Led product launch initiatives managing cross-functional teams of 15+ members, ensuring on-time delivery of new product variants
- Completed international assignment in Germany developing process expertise, then successfully transferred knowledge to facilitate ramp up of new value stream
- Reduced test failure rates by 20% across international production network through standardized maintenance programs and statistical process control implementation

Lean Engineer, Sherwood Valve

OCTOBER 2013 – AUGUST 2015

- Managed 2 departments with 10 direct reports, improving on-time delivery from 78% to 94% through visual management and daily accountability systems
- Reduced throughput time 64% (from 7 to 2.5 days) leading kaizen team implementation of cellular manufacturing and consumption-controlled (pull) systems
- Decreased defects by 25% through statistical analysis of quality data and targeted process improvements

Industrial Engineer, Brownsville Marine Products

AUGUST 2012 – OCTOBER 2013

- Directed comprehensive improvement initiatives across the plant, such as implementing a 5S program and refining the plate coating process, which significantly boosted production quality and operational efficiency

EDUCATION

Associate of Applied Science, Computer Programming, Trident Technical College

- Certificate in Applied Science, Database Administration
- Certificate in Applied Science, Internet Programming
- Certificate in Applied Science, Microcomputer Programming

Master of Business Administration, West Virginia University

Bachelor of Science, Industrial and Management Systems Engineering, West Virginia University

CERTIFICATIONS

Data Engineering Bootcamp, DataExpert.io • Databricks Fundamentals, Databricks • Certified Data Analyst, Tableau • Tableau Desktop Specialist, Tableau • Certified Associate in Project Management (CAPM), PMI

SKILLS

Programming: SQL, Python, R, Java, C#, JavaScript, HTML, PHP

Machine Learning: Scikit-learn, TensorFlow

Data Analytics & Visualization: Tableau, Power BI, Qlik, Looker, dbt, Predictive Analytics, Demand Forecasting, Supply Chain Optimization, Quality Analytics

Databases: Oracle, MySQL, PostgreSQL, MS SQL Server

Process Automation: Automation Anywhere, Catalytic, OutSystems, UiPath

Project Management: Certified Associate in Project Management (CAPM)