

Henry Davenport

LOGISTICS INNOVATION | DATA ANALYTICS | OPERATIONAL EXCELLENCE

Profile

Data Analytics Professional with extensive experience in SQL, Python, and Tableau, backed by engineering leadership background. Proven track record of leveraging data to drive business decisions, with expertise in statistical modeling and development of automated reporting solutions.

Employment History

Senior Engineer, Logistics Quality and Data Analytics, BOSCH, Charleston, SC

OCTOBER 2024 – PRESENT

- Promote data-driven decision-making through complex SQL queries and Tableau visualizations, integrating multiple data sources (ERP, WMS, quality systems) to create automated performance dashboards and identify process optimization opportunities.
- Lead implementation of IoT data collection systems for real-time tracking and quality monitoring of sensitive shipments, establishing digital infrastructure for advanced analytics capabilities.
- Direct cross-functional teams in preparation for automated ILS (intralogistics system) deployment, developing data requirements and metrics framework to optimize material flow efficiency.

Logistics Group Leader / Digital Change Agent, BOSCH, Charleston, SC

JUNE 2023 – OCTOBER 2024

Led engineering team responsible for packaging design, warehousing, internal transport, production supply, and logistics quality in an automotive plant.

- Developed and implemented logistics performance metrics, refined operational workflows, improving service levels to achieve a 95% on-time delivery rate.
- Created interactive dashboards using Tableau, Power BI, and SQL, enabling data-driven decisions and improving operational efficiency.
- Utilized machine learning and statistical modeling techniques to predict demand and optimize inventory levels, resulting in a 20% reduction in stockouts.

Senior Engineer, Supervisor, BOSCH, Charleston, SC

DECEMBER 2019 – JUNE 2023

Led team responsible for manufacturing engineering, MES applications, and controls engineering functions in the high-pressure direct injection (HDEV6) department.

- Directed the 2022 North American Jishuken Cycle, managing critical improvement projects across the region, resulting in over \$1.2M in annual savings.
- Managed local deployment of a web-based AI tool to identify defect root causes, enhancing FPY and achieving cost avoidance of over \$110k annually.
- Guided team, in 2020, to realize over \$1M in annual cost savings through process automation and efficiency improvements.
- Applied SQL and RDBMS expertise for real-time data visualization, ETL/ELT processes, and quality control, enhancing data accuracy and accessibility.
- Coordinated resources and managed budgets for large-scale projects, including the installation and ramp-up of automated high-speed assembly lines.

Manufacturing Engineer, BOSCH, Charleston, SC

AUGUST 2015 – DECEMBER 2019

Responsible for operational efficiency, process development, and change management in high-pressure direct injection (HDEV5 & HDEV6) departments.

- Successfully managed product launches, production relocations, and engineering design changes, leading cross-functional teams to timely completions.

Details

Charleston, SC
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Links

[Linkedin.com/in/Henry-Davenport](https://www.linkedin.com/in/Henry-Davenport)
GittyUpHD.GitHub.io/Resume/

Core Competencies

Data Analytics & Visualization
Process Automation
Internet Scripting
Web Development
Database Administration
Project Management
Lean Six Sigma

Languages

German

- Completed a short-term assignment at the HDEV lead plant in Germany, developing process expertise for North American production.
- Effectively managed the implementation of the plant's first "long injector" production line, improving production capabilities.
- As the leader of a global expert team, standardized maintenance programs to reduce test failure rate by 20% across the international production network.

Lean Engineer, Sherwood Valve, Washington, PA

OCTOBER 2013 – AUGUST 2015

- Promoted to supervisor, effectively managing two departments and ten direct reports, leading to improved departmental performance.
- Applied lean principles to lead a kaizen team, significantly reducing throughput time from 7 to 2.5 days and decreasing defects by 25%.
- Oversaw all robotic welding operations, acquiring extensive knowledge of TIG welding processes and Fanuc programming.

Industrial Engineer, Brownsville Marine Products, Brownsville, PA

AUGUST 2012 – OCTOBER 2013

- Led plant-wide improvement projects, including a 5S program and optimization of the plate coating process, enhancing overall production quality.

Education

Associate of Applied Science, Computer Programming, Trident Technical College

2023 – 2024

- Certificate in Applied Science, Database Administrator (2024)
- Certificate in Applied Science, Internet Programming (2024)
- Certificate in Applied Science, Microcomputer Programming (2024)

Master of Business Administration, West Virginia University

2011 – 2012

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

2007 – 2011

Certifications

Tableau Desktop Specialist, Tableau

2023

Certified Associate in Project Management, Project Management Institute

2013

Skills

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

Machine Learning: Scikit-learn, TensorFlow

Data Analytics & Visualization: Tableau, Power BI, Qlik, Looker, dbt

Databases: Oracle, MySQL, PostgreSQL, MS SQL Server

Process Automation: Automation Anywhere, Catalytic, OutSystems, UiPath

Project Management: Certified Associate in Project Management (CAPM)