

Henry Davenport

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SUMMARY

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

EXPERIENCE

Senior Engineer, Logistics Quality and Data Analytics | BOSCH

October 2024 – Present, Charleston, SC

- Promoted 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.
- Led implementation of IoT data collection systems for real-time tracking and quality monitoring of sensitive shipments, establishing digital infrastructure for advanced analytics capabilities.
- Developed predictive analytics models leveraging machine learning algorithms to enhance forecast quality, achieving a 25% improvement in accuracy and reducing material shortages.

Logistics Group Leader | BOSCH

June 2023 – October 2024, Charleston, SC

- Led engineering team accountable for an automotive plant's packaging design, warehousing, internal transport, production supply, and logistics quality.
- 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

December 2019 – June 2023, Charleston, SC

- Led a team in manufacturing engineering, MES applications, and controls engineering within 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 root causes of defects, enhance FPY, and achieve 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

August 2015 – December 2019, Charleston, SC

- Accountable for operational efficiency, process development, and change management within high-pressure direct injection (HDEV5 & HDEV6) departments.
- Successfully managed product launches, production relocations, and engineering design changes, leading cross-functional teams to on-time releases.
- 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 the test failure rate by 20% across the international production network.

Lean Engineer | Sherwood Valve

October 2013 – August 2015, Washington, PA

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

Industrial Engineer | Brownsville Marine Products

August 2012 – October 2013, Brownsville, PA

- Optimized floor plans and work standards, significantly improving material and resource flow, resulting in increased efficiency.
 - Led plant-wide improvement projects, including a 5S program and optimization of plate-coating process, enhancing overall production quality.
 - Spearheaded cross-functional teams to implement lean manufacturing techniques, achieving a 15% reduction in production cycle time and a 10% increase in throughput efficiency.
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EDUCATION

Associate of Applied Science, Computer Programming | Trident Technical College

North Charleston, SC, 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

Morgantown, WV, 2012

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

Minor in Business, Morgantown, WV, 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

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

Databases: Oracle, MySQL, PostgreSQL, MS SQL Server

Machine Learning: Scikit-learn, TensorFlow

Process Automation: Automation Anywhere, Catalytic, OutSystems, UiPath

Project Management: Certified Associate in Project Management (CAPM)
