Christopher Brenton

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SUMMARY

Multi-disciplinary and solution-driven engineer with 5+ years of experience leading innovation, managing teams, and leveraging data to solve complex problems. Recognized for tenacity driving value for stakeholders through BI solutions and fostering a data-driven culture. Eager to apply innovative mindset and analytical acumen as a data analyst.

EXPERIENCE

Autoliv **Mar 2021 – Present**
Development Engineer *Auburn Hills, MI*

- Established and maintained a Power BI app and data gateway for all North American engineering from director level management to individual contributors streamlining project status insights and actionable strategy development
- Initiated a time reduction opportunity by creating a data analysis application in Python that automated test data cleaning and final report generation reducing completion time from a few hours to less than 5 seconds
- Presided as the global leader of illuminated emblems by supporting successful product development, defining internal standards, solving ad hoc global issues, and managing a team to increase expertise globally
- Championed innovation projects for airbag illuminated emblems as the lead engineer by directing cross-functional teams, coordinating with suppliers, and managing timing within a budget
- Built an automated engineering data checklist using Excel VBA, conditional formatting, and data validation to streamline part flagging and reduce user input errors

Autoliv **Jun 2018 – Mar 2021**
Application Engineer / Development Engineer *Auburn Hills, MI*

- Managed product development for successful launches of the MY19 Lincoln Aviator, MY20 Lincoln Corsair, and the first ever Rivian R1T/R1S steering wheel programs
- Executed product validation testing, conducted analysis on the resulting data, generated final reports based on the found conclusions, and communicated results to internal and external stakeholders
- Identified trends in the feedback loop between predicted and actual results for an armature bending model leading to a parameter tune on the model for better future correlations and a passed test with a 20% thickness reduction
- Constructed a specialized calculator for all engineering teams based on the Steinhart-Hart equation for converting resistance to temperature using Excel VBA to correct improper lab calculations

Autoliv **May 2017 – Aug 2017**
Development Engineer Intern *Auburn Hills, MI*

- Designed an innovative method for prototyping parts utilizing 3D printing that resulted in $60,000 in savings
- Directed a collaborative root causing effort to solve a complex plastic deformation issue by utilizing problem-solving analysis tools and working with a diverse team of engineers

PROJECTS

Pups and Pubs - Brewery Analysis With SQL, Python, and Tableau
Conducted descriptive analysis on a brewery database with PostgreSQL, enriched data by web scraping a dog-friendly brewery dataset with python, and built an interactive Tableau dashboard identifying 98 dog-friendly Michigan breweries

DJ With Data - Spotify Music Analysis in Python
Developed a predictive model for matching playlist music trends utilizing python, the Spotify API, and statistics with Chebyshev's inequality for a dataset of 6,138 songs resulting in 2255 songs fitting the model or 36.7% of the total songs

EDUCATION

Michigan State University **May 2018**
B.S. in Mechanical Engineering, Minor in Computer Science *East Lansing, MI*

CERTIFICATIONS AND SKILLS

Certifications: Google Data Analytics Professional Certificate
Hard Skills: Python, VBA, PostgreSQL, Power BI, ETL (Extract, Transform, Load), Microsoft Office, Google Suite, and Windows/MacOS Proficiency; Tableau, BigQuery, R, and Statistics Experience; Machine Learning Familiarity
Soft Skills: Critical Thinking, Leadership, Project Management, Public Speaking, Communication, Collaboration, Teamwork, Growth-Driven, Detail-Orientated, Adaptability, Organization, Self-Motivated, Curiosity, Enthusiasm, Integrity