Devin Powers

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devintheengineer.com|github.com/devinpowers

RESUME OBJECTIVE

Exceptionally well-organized and resourceful professional with a solid academic background in engineering and mathematics; excellent analytical and problem-solving skills; able to handle multiple projects while producing high quality in a fast-paced, deadline-oriented environment. Seeking a position in a data-driven business/engineering role. Passionate about continuing to develop programming competence in Python and C++ to solve complex business and engineering problems.

EDUCATION

Michigan State University East Lansing, MI December 2019

- **College of Engineering** – Civil Engineering
- Member of IEEE, ASCE, EESS and MSU Snowboarding Club

WORK EXPERIENCE

ADAC Automotive Project Engineer Intern May 2017 - August 2017, June 2019- August 2019

- Improved product quality issues on door handle frames from Mexico by performing tensile, shear, torsion, and compression testing; saved the company $10,000 from travel expense and manufacturing delays
- Assisted diagnosing when defects in car door handle occurred during environmental and performance testing by using linear regression and machine learning algorithms; helping to identify and predict when products would malfunction
- Interpreted engineering prints, wrote validation reports, adjusted mechanical tolerances by creating excel spreadsheets; helped prepare engineers for meetings with General Motors
- Evaluated the environmental impact of a car door handle from raw material to finished product by performing a life-cycle analysis; helped engineers identify key areas in the manufacturing and supply chain process to improve sustainability

Ten-E Packaging Services Packaging Engineer Intern May 2018 - August 2018

- Provided packaging support services to clients' consumable devices by quickly researching and learning new material and regulations, resulting in adding $100,000 in new revenue from clients
- Developed new filing and organizational practice for lab tests, transitioning from paper to electronic tablets, allowing customers to be informed of their product status quicker; from 1 day to 30 minutes
- Coordinated and monitored projects from ten accounts during manager absence ensuring timely flow and complete delivery of the projects

PROJECTS

- All projects are available on devintheengineer.com or github.com/devinpowers

Computer/Programming Projects

- Designed a beginner's friendly guide for learning discrete mathematics, statistics and C++
- Developed a Big Data Science page that includes notes and code for working with SQL and Python to collect data, clean data, data visualization, predictive modeling and cluster analysis
- Organized a Data Structures and Algorithms page (in Python) that includes notes and code for different data structures (Linked lists, Trees, Hash Tables, and Graphs) and algorithms (Searching and Sorting)
- Developed an ETL (Data Extraction Transformation and Loading) pipeline using Twitter API to stream data to MySQL database and then performed sentinel analysis using Python on the Tweets
- 2021 NCAA Basketball Tournament Machine Learning Project that used predictive modeling (Random Forest Classifier) to predict the number of wins for each team in the Tournament, correctly picked 3 out of the 4 Final Four teams

TECHNICAL SKILLS

- **Tools:** Microsoft Office (Word, Excel, PowerPoint, Power BI), Tableau, Git
- **Languages:** Python (NumPy, Pandas, Scikit-Learn), C++, SQL (MySQL, SQLite), MATLAB