

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 an entry-level position in a data-driven business/engineering role. Passionate about continuing to develop programming competence.

EDUCATION

Michigan State University East Lansing, MI

December 2019

- **College of Engineering** – Civil Engineering
- Cumulative 3.2 GPA
- 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 manufacturing and supply chain process to improve sustainability
- Wrote simple scripts solving spring-mass-damper system in car door handle using Python; helped to visually show velocity and displacement during performance testing

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
- Assumed project management role during manager absence by ensuring 10 accounts were on project timeline and \$300,000 worth of services were handled

PROJECTS

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

Engineering Projects

- Completed a wastewater treatment facility design with a filtered membrane by applying theories and practices learned in Water and Wastewater Treatment, Microbiology, and Organic chemistry courses
- Developed a water slide, detention pond, remediation site cleanup, and a drainage system by applying methods learned in Hydraulics and Hydrology
- Completed a capstone project evolving designing a drainage system and hydraulic analysis of a river by applying engineering knowledge; ensuring the project complied with federal, state, and local regulations

Computer/Programming Projects

- Designed a guide for learning Discrete Mathematics, C++, and Data Structures and Algorithms (in Python)

TECHNICAL SKILLS

- **Tools:** Microsoft Office, Tableau, Git
- **Languages:** Python (NumPy, Pandas, Scikit-Learn), C++, SQL, MATLAB