

Malik A. Crutchfield

2264 Little Hurricane Rd, Winchester, TN 37398 || C: (931) 581-8494 | malik0605@gmail.com

Summary

Highly motivated and talented Entry Level Mechanical Engineer. Well organized, detail-oriented and proficient learner, seeking employment in a fast-paced, challenging environment.

Education

Bachelor of Science, Mechanical Engineering May 2018
University of Tennessee, Knoxville GPA: 3.44 / 4.0

Highlights

- Project management
- Creative problem solver
- Computer Aided Design
- Lean Manufacturing
- Quality control / assurance
- Finite element analysis
- Strong technical aptitude
- Team player / friendly
- Manufacturing processes
- Safety-conscious

Work Experience

Mechanical Engineer August 2017 – May 2018

Senior Design Project, Shangri-La Academy of Riding

- Designed a water collection and distribution system for a horse arena.
- Collaborated with three other engineering students and faculty advisor.
- Programmed Arduino with MATLAB to be used in sprinkler control system.
- Presented concepts and test results to the owner and university faculty.
- Used fluid dynamics and compressible flow concepts to optimize calculations.
- Used Solidworks and Autodesk Inventor to create model of designed system.
- Performed cost analysis for future instalment of final design.

Student Library Assistant (40hr/week) May 2017 - August 2017

University of Tennessee, Hodges Library Knoxville, TN

Quality Engineer Intern (40hr/week) May 2016 - August 2016

Aisin Automotive Clinton, TN

- Assisted quality engineers in investigating issues on the factory floor.
- Demonstrated ability to communicate effectively across all forms of leadership.
- Communicated with customers on newly implemented quality control methods.
- Reviewed design drawings for mistakes and ran test to verify measurements.
- Optimized performance and safety for new water pump and VVT lines.