

Malik A. Crutchfield

2264 Little Hurricane Rd, TN 37398

(931)581-8494

malik0605@gmail.com

Well organized and proficient learner, who is also driven, focused and motivated, is seeking employment with advancement opportunities.

Education

Bachelor of Science Mechanical Engineering May 2018

University of Tennessee, Knoxville

GPA: 3.44 / 4.0

Experience

University of Tennessee, Hodges Library Knoxville, TN

Student Library Assistant May 2017 - August 2017

Aisin Automotive Clinton, TN

Quality Engineer Intern May 2016 - August 2016

- Assisted quality engineers in investigating issues on the factory floor, and helped to implement production lines for new parts.
- Demonstrated ability to communicate effectively across all forms of leadership to discuss quality issues.
- Communicated quality issues with customers. Reviewed design drawings for mistakes, and ran test to verify measurements.

Dallas Felton Construction Winchester, TN

Carpenter May 2015 - August 2015

- Worked alongside two others to fully frame and layout custom homes.

Computer/Skills

- | | | |
|---------------------------|-----------------------------|---------------------------|
| • Project Management | • MATLAB | • Manufacturing Processes |
| • Finite Element Analysis | • Solidworks | • AutoCAD |
| • Microsoft Office Suite | • Quality Assurance | • Autodesk Inventor |
| • Lean Manufacturing | • Automated Control Systems | |

Experience

Senior Design Project

- Designed and tested a water collection and distribution system for a horse arena in Knoxville, TN
- Worked with three other engineering students and faculty advisor to create automated control system for sprinklers
- Wrote code for a Raspberry Pi to be used in the control system.
- Presented concepts and results to the owner of the horse arena throughout the process, and created a final engineering report for their future installment

Engineering Classes

- Designed and optimized a working water wheel based on material and dimensions in computer aided design software, Solidworks
- Used MATLAB software to optimize conditions for design
- Used MATLAB to program an Arduino to make a robot perform multiple task.
- Classes Taken Outside Major: Compressible Flow, Graduate Level Additive Manufacturing, Structural Analysis of Aerospace Vehicles, Engineering Statistics, Computer Aided Design

Aisin Automotive VVT and Water Pump Installment

- Worked with other engineers and line workers to optimize processes of new water pump and VVT lines
- Created quality check documentation; based on test that we created and the blueprints provided
- Coordinated test schedule and worked effectively in a dynamic environment