

Kyle Whaley

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Kwaudioproduction.com/aboutKyle

630-744-9932

Work Experience

Systems Engineer, Newport News Shipbuilding, PEER Program

July 2022 – Present

- Managed the Product Lifecycle database of thousands of parts of 2 submarine classes
- Collaborated with 4 independent teams to identify and fix bugs and user issues
- Streamlined database access process by 15% by use of creating new company procedures

Mechanical Engineer, Newport News Shipbuilding, PEER Program

Jan 2022 – July 2022

- Verified digital piping and ventilation schematics to ensure proper documentation for installation
- Oversaw 6 designers in piping as a dedicated checker to reduce turnover times by up to 50%
- Graduated from trainee to independent checker in under 6 months and outputted 100+ schematics

Software Test Engineer, Newport News Shipbuilding, PEER Program.

July 2021 – Dec 2021

- Researched and created test procedures for updated software aboard aircraft carriers
- Tested and troubleshooted updated software, finding 50% of issues before release
- Streamlined testing procedures of fire alarms to save 400 man-hours
- Coached and developed team on systems aboard the carrier to better equip for future testing

Structural Engineer, Newport News Shipbuilding, PEER Program.

Jan 2021 – June 2021

- Designed and tested structures for safe transportation of valuable government property of up to \$500 million through finite element tools (FEMAP)
- Crafted official company documents to ensure the full safety of the ship and shipbuilders

Systems Test Engineer, Newport News Shipbuilding

July 2019 – Dec 2020

- Developed and executed test procedures for onboard purging of a submarine system
- Collaborated with customer and stakeholders to validate operational safety.
- Reduced cost of Submarine restoration with routine system checks

Engineering Powertrain Intern, Delphi Technologies

May 2018 – August 2018

- Performed Failure Analysis on returned warranty pressure sensors
- Created reports and examined findings to satisfy customer relations

Lab Technician, Delphi/Aptiv Electronics and Safety Lab

February 2017 – May 2019

- Constructed advanced test harnesses for Delphi/Aptiv Engineers
- Directed the lab's most difficult projects from start to finish, ensuring engineer satisfaction

Projects

Music Marketer and Producer

- Create, produce, and sell original music
- Market music through the use of social media and streaming platforms
- Work with a team of music producers to coordinate and create content and releases
- Analyze trends and consumer habits to reach the best possible audience

Multiband Compressor: Three band compressor plug-in created in C++ with JUCE Framework

- Creates three audio signals from input signal and allows for separate processing of each signal
- Incorporated FFT Analyzer and separate tabs within the GUI to allow for maximum control

3 Band EQ: Equalizer Plugin created in C++ with JUCE Framework

- Boost/reduce incoming frequencies of a signal, allowing for quick, broad cleanup of signal
- Easy to use GUI to allow for quick customization of the sound and intuitive workflow

Automated Loading for CNC Hobbing Machine

- Collaborated with Fiat-Chrysler to update existing CNC machine to accommodate new part
- Applied analytical, reason, and logic to create the most efficient and streamlined process

Education

Purdue University, Bachelor of Science in Mechanical Engineering, May 2019

GPA: 3.70/4.0

Programming Languages: C, C++, LabVIEW, Matlab, JavaScript.