

# Kyle Whaley

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## Education

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

GPA: 3.70/4.0

## Work Experience

**Systems Test Engineer**, *Newport News Shipbuilding* July 2019 – Present

- Developed and executed test procedures for onboard purging of a submarine system
- Collaborated with multiple teams to execute satisfactory testing
- Performed system checks to ensure no delays and reduce cost of submarine restoration project
- Implemented systems for safe operation of nuclear reactors onboard submarines

**Engineering Powertrain Intern**, *Delphi Technologies* May 2018 – August 2018

- Performed Failure Analysis on returned warranty pressure sensors
- Designed procedures to solve complex problems
- 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

**PEER Program** (Professional Enhancement and Enrichment Rotation), *Newport News Shipbuilding* Jan 2021 – Present

- Program designed to give a breadth of experience in engineering and operations throughout Newport News Shipbuilding.

**Software Test Engineer**, *Newport News Shipbuilding, PEER Program.* July 2021 – Present

- Create, review, and execute test procedures for the software onboard the Ford Class Aircraft Carriers
- Apply critical thinking and problem-solving skills to resolve issues found within the test procedure and within the program
- Research and analyze systems within the ship to develop and execute test plans
- Organize and communicate between many different departments to see successful tests from start to finish.

**Structural Engineer**, *Newport News Shipbuilding, PEER Program.* Jan 2021 – June 2021

- Designed and tested structures for safe transportation of valuable government property through using finite element tools (FEMAP)
- Responsible for the rigging and safety of structures for all operating personnel.
- Balanced communication across all parties to ensure responsible handling of all assets

**Music Marketer and Producer**, *Self-Employed.* April 2020 – Present

- 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

## Related Coursework

**Automated Loading for CNC Hobbing Machine** January 2019 – May 2019

- Worked with FCA to update existing loading device to accommodate new part
- Applied analytical, reason, and logic to create the most efficient and streamlined process
- Forged relationships with team and FCA to ensure strong communication and progress

## Skills

AutoCAD | FEMAP | MATLAB | C & C++ | CATIA | Microsoft Office | Inventor | Failure Analysis  
| Databases | Structural Analysis | Procedure Writing | EES | Statistics | Heat Transfer | Fluid  
Dynamics | Machine Design | Control Systems | LabVIEW | Ableton | VSDC | Gimp | Test Planning  
& Execution | FEA | Computer Hardware | Networks |

## Leadership

### **Singles Ministry Leader**

Jan 2021 – Present

- Foster a ministry to the individual and preserve unity in the group
- One on one group sessions to share and support the needs of the group
- Organize and create events for the group.

### **Youth and Young Adult Leader**

October 2018 – March 2020

- Cultivated communication and relationships within a diverse and complex environment.
- Organized events to increase community productivity and awareness
- Created a culture of unity and focus towards a united goal