Kyle Whaley

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Work Experience

IT Software Engineer, *Newport News Shipbuilding,*   April 2023 – Present
- Updated and maintained legacy code base for custom code on enterprise software SAP
- Lead on team's SAP Upgrade work to ensure all end users have fastest and functional programs
- Experience in agile methodologies while maintaining pace for continues development

Model Based Engineer, *Newport News Shipbuilding, PEER Program*   July 2022 – April 2023
- Managed the Product Lifecycle Database of thousands of parts of 2 submarine classes
- Managed change process and became SME for all changes within Product Lifecycle Database
- Collaborated with 4 independent teams to identify and fix bugs and user issues
- Document and develop system architecture and procedures for customers

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
- Updated software in Agile environment through the software development lifecycle
- 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 customers 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

Lab Technician, *Delphi/Aptiv Electronics and Safety Lab*   February 2017 – May 2019
- 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 using 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

Audio Plug-ins: Music Software 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

Education & Certifications

Purdue University, Bachelor of Science in Mechanical Engineering, GPA: 3.70/4.0, May 2019.
Certification "Computer Science for Web Programming" via Harvard University through EdX.
Programming Languages: C, C++, LabVIEW, Matlab, JavaScript, SQL, Python, Django, XML, Web Applications, Linux, JSON, SharePoint