

Jhensen Ray Agni

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Education

Worcester Polytechnic Institute | May 2020 - Present

*Master of Science in **Robotics Engineering***

University of California, Riverside | August 2015 - June 2019

*Bachelor of Science in **Mechanical Engineering** with a concentration in **Design and Manufacturing***

Udacity | Nov 2020 - Present

Robotic Software Engineering Nanodegree Program Certification

Skills

Matlab, C/C++, Python, MS Excel, MiniTab, JavaScript(ES6), SolidWorks, HTML, CSS, Bootstrap, Node.js, Express.js, SQL, MySQL, Numpy, Simulink, jQuery, Arduino/Raspberry Pi Programming, Gazebo, Linux Ubuntu, Git, Robotic Operating System(ROS), Soldering, Tooling/Machining, Geometric Dimensioning & Tolerancing(GDT), Data Structures and Algorithms

Security Clearance: Active DOD - Secret

Work Experience

Honeywell Aerospace

Mechanical Test Engineer | October 2020 – Present

- Assumed the role of a test lead in planning, coordinating, and executing Acceptance and Qualification Test programs for the AADA, 777x GCM, Joint Strike Fighter (JSF) Integrated Test Stand Programs.
- Prepared evaluation reports, analyzed discrepancies, and initiated the most cost effective improvements for test equipment, procedures, and operating processes that improve productivity and quality and reduce process time
- Coordinated and organized a team of technicians, stress, mechanical design, and project engineers to conduct Test Readiness Reviews for test stand recommissioning.

Naval Surface Warfare Center, Corona Division

Systems Engineer | August 2019 – September 2020

- Apply advanced techniques of Reliability, Maintainability and Availability (RM&A) theory to material readiness assessment for Hull Mechanical and Electrical Power Systems
- Combine and integrate all failure data to analyze and assess a single system, multi system, or system of systems readiness
- Develop and document a single system or system of systems reliability models and criteria for scoring system failure events
- Analyze Areas of Concern to determine systems root cause of failure, logistics, maintenance, supportability, and cost to improve fleet readiness and minimize project overhead
- Use readiness assessment tools and multiple databases to determine system RM&A metrics and apply continuous process improvement (CPI) techniques

Eotron LLC.

Product Development Engineering Intern | June 2018 – December 2019

- Rapidly created parts and assemblies in SolidWorks for use in production that can be printed using 3D printers.
- Successfully designed and programmed a UVC LED Sanitation prototype that will be implemented in the medical, food service, and private industries.

Projects

Window Cleaning Robot Senior Design Project

- As programming and electronics lead, collaborated with colleagues to successfully design and fabricate an autonomous window cleaning robot which implements servo motors, stepper motors, and an arduino microcontroller for actuation and control.

TurtleBot Indoor SLAM Project

- Developed and tested Motion Planning, Obstacle Avoidance and Trajectory Control algorithms in order to autonomously map(gmapping) and maneuver through an indoor environment.