Cullan K. Aoki

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Electrical Test Engineer

Electrical Engineer with a proven history of producing robust automated test equipment.

- Proficient in LabVIEW and Test Stand.
- Experienced with data acquisition and instrument control.
- Design and hands on construction of test fixtures and automated test equipment.
- Strong background in testing of hydraulic, mechanical, electrical, and electro-mechanical aerospace parts and systems.
- Composition of test system and software requirement documents.
- Motion and Pressure/Force control.
- Schematic capture and PCB layout with Altium.

Experience

Sigma Design, Camas, WA — Sept 2018 – May 2019

Electrical Test Engineer

Electrical test development of prototype manufacturing line.

- Test specification development.
- Test station development.

Rockwell Collins, Everett, WA — Dec 2017 –Sept 2018

Electrical Engineer

Research and Development of new products.

- Electrical circuit design for new products.
- Schematic capture and PCB board layout using Altium.
- Test equipment and test software development.

Crane Aerospace and Electronics, Lynwood, WA — May 2014 –Dec 2017

Test Engineer

Develop Automated Test Equipment software for new product introduction. Projects include the 737MAX Tire and Brake Monitoring System and the A330 Tire Pressure Indication System.

- Develop test equipment system and software requirements.
- Develop test procedures.
- Compose test reports.
- Design automated test equipment software.
- Perform qualification testing.

Triumph Aerospace Systems – Seattle, Redmond, WA

April 2013 – April 2014

Electrical Test Manager

Manage daily functions of electrical test group. Ensure that development, production, and qualification testing needs are met in a cost effective and timely manner. Actively involved in the design of all test fixture electrical control, data acquisition, and software. Interact with internal and external customers, and suppliers. Investigated new solutions to achieve improved and more economical test designs.

- Effectively managed workforce and equipment to implement test systems for over a dozen projects and numerous test fixtures.
- Programmed embedded system and real time operating system to demonstrate new technology in wing flap actuation.
- Managed calibration of sensors and data acquisition systems.
- Instructed junior engineers on the fundamentals of electrical test design, LabVIEW programming, and closed loop control.

Triumph Aerospace Systems – Seattle, Redmond, WA June 2007 – April 2013

Systems Engineer

Meticulous design of electrical control and data acquisition systems for development, qualification, and production testing of aerospace components and systems. Innovative test fixture design and motion, pressure, force, and temperature control.

- Designed electrical control and data acquisition system to test landing gears for S97 helicopter and Cirrus jet.
- Designed automated test systems for CH-53K helicopter blade fold and damping system
- Successfully tested 747-8 Main Landing Gear Actuators, 787 Large Cargo Door, 737 Main Landing Gear Actuators.

Education and Certifications

Bachelor of Science, Electrical Engineering (BSEE)
University of Washington, Seattle, Washington

Certified LabVIEW Developer
National Instruments