Hai Tuan Nguyen

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Technical Skills

SolidWorks, 2D & 3D modeling, GD&T, Finite Element Analysis, LabView, CFD, MATLAB, Simulink, MS Office Suite, C&C++, and ASME Y14.5-2009.

EDUCATION, PROJECTS, and CERTIFICATION

3D Printing and Rapid Prototype Certificate Training, 2013
Foothill College, Los Altos, CA.
Project: Trained in 3D printing applications and developed competency through rapid prototype technology with full developing cycle from CAD design to actual prototype with the Stratassys 500 Fortus.

M.S. Aerospace Engineering, 2012
San Jose State University, San Jose, CA**.**
Project: Developed and accelerated the solver for incompressible Navier-Stoke equations using OpenFoam in combination with Nvidia Tesla GPU technology, and access the solver performance though CFD simulation.

B.S., Aerospace Engineering and Mechanical Engineering, 2010
San Jose State University, San Jose, CA**.**
Project: Created sensor system by using mechatronics principles, in which electro-mechanical devices moved sensor systems along the metal gas pipe to detect any defects.

EXPERIENCE

Test Engineer 2017-Present
Cisco (Contracted through Wipro, San Jose, CA)

- Create and Develop LabVIEW programs for measuring and testing airflow on new design
- Validating and testing thermal design now new blade/rack server
- Develop bash/shell script to collect thermal sensors in the developing of rack fan control
- Create and build mock-up blade/rack server for airflow and thermal design
- Develop shell script to stress the TTV/CPU/GPU and collecting sensors data in design verification
- Setup and maintaining UCS based serve in the lab.
- Performing firmware update and testing new rack and blade server newly release image on a daily basic.
- Scripting up and automating the testing processes regularly through Shell script and LabVIEW through various sensors, pressure transducer, acoustic microphone, accelerometer, thermocouples, Agilent DAQ, Keysight Oscilloscope, Agilent Power supply, etc.

Production Line Lead 2015-2016

Flextronics (Contracted through Aerotek, Milpitas, CA)

- Managed the manufacturing line from fabrication to assembly and tested the PCB boards
- Managed stations and operators to ensure smooth operation of SMT machine, hand solder, touch up/rework, hand load, 5DX, ICT, press fit, mechanical assembly, Wave machine, and JTag debug.
- Provided training of SMT Operators for the graveyard shift
- Provided daily product and process validation
- Responsible for applying, and maintaining assembly standards for processing materials into finished products
- Maintained required documentation and paperwork such as: material transfers, and online process reports to other departments staff and management
- Worked closely with quality engineers, process engineers, and management team-provided verbal and written reports on the production results and products deviation.
- Ensure the production floor, all equipment, tools, and kits were documented, controlled and organized according to both internal and external audit of ISO 9000 standards.

Mechanical Engineer Intern 2012

BAE Systems, Radford, VA

- Reviewed, prepared technical reports, and documented designs for senior engineers
- Developed testing plans to compare actual to theoretical data, repaired electronic and structural test equipment
- Utilized MS Access to construct database of all existing aircraft designs

Aerospace Engineer Intern 2012

NASA Langley Research Center, Hampton, VA

- Created aircraft model for NASA and Boeing collaboration.
- Performed R&D project, conducting CFD simulation and structural analysis via SolidWorks and NASTRAN, optimizing aircraft structure for weight reduction and reported all results to Senior Engineer

Turbine Operator Trainee 2000

United States NAVY, Great Lakes, IL.

- Operated and maintained the mechanical equipment of steam turbine system
- Operated, inspected and maintained the equipment such as: valves, pumps, and dampers