Alexander E. Schwarz

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LinkedIn   GitHub   Portfolio Page

Summary

Full stack web developer with experience using frameworks, libraries, and APIs, to supplement CSS and javascript in making dynamic web pages. Strong performance as a team member and leader with great interpersonal and communication skills. Experience with industry and in-house analysis tools.

Highlights

- Composite and metallic analysis
- Nastran and Patran experience
- Matlab proficient
- Export compliance focal
- Finite Element Analysis
- Classical hand calculations
- Process improvement development
- U.S. citizen –security clearance eligible

Work Experience

February 2017-Present

QuEST Global N.A. – Collins Aerospace Systems VBU, Chula Vista
Aftermarket Aerospace Stress Engineer

- Executed stress analysis to substantiate repair and allowable damage limits for the Structural Repair Manuals (SRM) of new and legacy programs.
- Analysis of composite nacelle components in support of Boeing 787 program as well as metallic and composite nacelle components for various legacy programs.
- Peer reviewed stress reports of team members to ensure a high degree of quality and accuracy prior to submission to customer.
- Generated Excel VBA automation tools for analysis documents.
- Collaborated with Repair Engineers in development of legacy program repair documents.
- Provided direction on international trade compliance concerns as export compliance focal.

August 2012-October 2013

Rancho Family YMCA, San Diego, CA
Aquatics Coordinator

- Developed aquatics programs serving 550 participants per month during peak season with direct input from community and staff.
- Led staff trainings twice a month to develop staff skills and ensure up to date rescue certifications.
- Provided supervision to staff of 40 lifeguards and swim instructors.
- Addressed any client concerns as pertained to aquatics department and auxiliary departments.

December 2009-August 2012

Rancho Family YMCA, San Diego, CA
Head Lifeguard/Swim Instructor

- Led monthly staff meetings and rescue certification trainings.
- Performed maintenance to aquatics facility and ensured all equipment was in working order.
- Provided supervision to staff and assisted with customer concerns.
- Lifeguarded and instructed swim programs.

Education

2011-2016
University of California, San Diego, La Jolla, CA
Bachelor of Science, Structural Engineering

2007-2011
San Diego Community College District, Miramar, Mesa and City
Engineering

Skills and Attributes

- HTML, CSS, Git, Responsive Design, Javascript, jQuery, AJAX
- Engineering software: Nastran/Patran, MathCAD, MATLAB, Abaqus, Solidworks, SAP2000, Autocad, Robopro.
- Other software: MS Word, Excel, Powerpoint.

- Engineer in Training Certificate – California, December 2016. Certificate number 160064.