JAMES POWELL – SOFTWARE ENGINEER - MECHANICAL ENGINEER

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EDUCATION: Bachelor of Science, Mechanical Engineering Louisiana State University, Baton Rouge, LA August 2008

Java Back-end Engineering Immersive Course, The Iron Yard, Charleston, SC April 2016

OVERVIEW: I have 7 years of professional experience in the offshore oil & gas industry complemented with additional experience in the fiberglass piping and aerospace industries. My software development experience spans multiple applications built on the Java stack.

EXPERIENCE

Mechanical Engineer Jacobs Engineering Group, Metairie, LA

Sept. 2011 – Sept. 2015

• Served as mechanical engineer supporting Royal Dutch Shell Cardamom and Blast Wall projects.

• Notable work scope: Lead – topsides engineering technical integrity verification. Lead – topsides engineering project controls assurance plan. Lead – topsides engineering client standards compliance. Client technical authority liaison. Primary mechanical engineer – Blast Wall installation, production manifold major modifications, seawater cooling system modifications, and more. Field work – P&ID/core design document walk- downs and inspection, tie-in point walk-downs, commissioning support, construction personnel briefing. Stress analysis – Caesar II analysis of various flowline failure scenarios due to temperature.

Reliability Engineer Oceaneering International Inc, Lafayette, LA

Sept. 2008 – Aug. 2011

• Served as a reliability engineer for the mechanical integrity and predictive maintenance division.

• Constructed a used oil(lubrication) analysis laboratory service to support reliability of rotating equipment within the company's ROV, Marine Vessels, and Umbilical manufacturing divisions.

• Performed API 579 fitness for service assessments to support the mechanical integrity inspection group.

Internship Lockheed Martin: Space Systems Company, New Orleans, LA

Summer 2006 & Summer 2007

• Served in the stress analysis engineering group supporting the space shuttle external tank thermal protection system.

• Evaluated and updated stress margin of safety, created flight readiness presentations, and composed inter-department technical memorandum.

• Supported and managed micro-computer resources for the Production Operations department at NASA's Michoud Operations. Performed systems analyst duties.

Internship Future Pipe Industries, Gulfport, MS

Summer 2005

• Ground-level experience assembling complex machinery for new manufacturing plant.

• Designed apparatus for ASTM strain-corrosion testing of fiberglass piping.

• Outfitted quality control laboratory for ISO 9001 manufacturing compliance.

SKILLS

Languages	Programming Philosophies	Databases	Frameworks/ Libraries	CAD	Computational
Java	Object-Oriented	H2	Spring Boot	AutoCAD	Caesar II
Clojure	Functional	PostgreSQL	Spark Java	Solidworks	MS Excel
SQL	REST		JavaFX	Rhinocerous	MatLab
Javascript	Object-Relational Mapping		jUnit		
HTML	Agile/Scrum		DevTools		
CSS			Mustache		
Git			Hiccup		
VBA			JQuery		
			Websockets(Stomp, SockJS)		
			JSON(various)		