

Jason Eirik McCallister

Mechanical Engineer | Offshore Drilling & Rig Systems Specialist

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Professional Summary

Mechanical Engineer with over 25 years of experience in ultra-deepwater and midwater semi-submersible drilling platforms. Expert in rig design, data analysis, mechanical systems maintenance, and offshore safety optimization. Proven leadership in interdisciplinary teams delivering high-impact engineering solutions in the oil and gas sector.

Professional Experience

Independent Contractor – Offshore Engineering Consultant 2015 – Present

Lead contractor overseeing mechanical systems and rig design for ultra-deepwater drilling platforms. Collaborates with multidisciplinary teams to construct, maintain, and optimize offshore rigs.

Halliburton Energy Services – Senior Mechanical Engineer 2000 – 2015

Worked on multiple large-scale drilling programs and machinery systems optimization. Led teams responsible for system diagnostics, structural integrity tests, and mechanical design improvements.

Education

Bachelor of Science in Mechanical Engineering (BSME), University of the State of New York

Selected Projects

- Design Optimization for Semi-Submersible Rig Stabilization (Chevron Project, 2021)
- Pipeline Installation and Mechanical Stress Analysis (Gulf of Mexico, 2018)
- Offshore Rig Maintenance & Safety Systems Overhaul (Halliburton, 2012)

Technical Skills

Mechanical Design, CAD (AutoDesk, SolidWorks), Fluid Mechanics, Offshore Rig Maintenance, Structural Analysis, Team Leadership, Project Management

Leadership & Organizations

• Head Structures Engineer, Northeastern Electric Racing (FSAE) • Vice President, STEM Fraternity, University of the State of New York • Eagle Scout, Boy Scouts of America