TECHNICAL EDUCATION ACADEMY

Sergey Kuzmichev

Instructor

Sergey is a seasoned engineering professional whose career spans over 15 years across pivotal roles within the oil and gas sector. His profound expertise in drilling risers, wellhead systems, and structural analysis positions him as a distinguished figure in the field of Mechanical Engineering.

With a Ph.D. in Mechanics of Deformable Solids from the Institute for Problems in Mechanical Engineering of the Russian Academy of Science, Sergey's academic foundation is robust. His research has significantly contributed to the understanding of structural defects in brittle solids under mechanical stress, a critical area in mechanical and civil engineering.

Sergey's professional journey is marked by his tenure at Equinor, where he currently serves as a Principal Engineer in Marine Technology. Here, he leads R&D projects focusing on the fatigue issues of subsea equipment, integrating deepwater steel catenary risers, and enhancing wellhead systems through finite element analysis (FEA). His responsibilities encompass not only the technical analysis but also quality assurance of technical documentation from vendors, ensuring that all operations adhere to stringent industry standards such as DNVGL and NORSOK.

Prior to Equinor, Sergey was a Senior Engineer at Statoil, where he was integral to the wellhead fatigue group, responsible for developing and introducing technological improvements and compiling technical requirements. His career also includes a significant stint at FMC Technologies in Russia, where he performed detailed engineering analysis for well access systems and contributed to product standardization efforts.

Sergey's ability to navigate complex engineering challenges is complemented by his proficiency in a variety of CAD/CAE software tools, including ABAQUS, ANSYS, and SolidWorks. This technical versatility enables him to provide comprehensive training and mentorship to peers and juniors, enhancing team capabilities and fostering a culture of continuous learning.

An advocate for innovation and improvement, Sergey is committed to optimizing work processes and engaging in proactive problem-solving. His approach is deeply rooted in a philosophy that values open-mindedness and readiness for new challenges, traits that make him an exceptional coach and instructor.

In addition to his technical acumen, Sergey is a communicator and educator, capable of distilling complex concepts into understandable terms and training internal personnel to enhance their skills and knowledge. His role on learning platforms is not merely to instruct but to inspire, equipping learners with the tools they need to excel in the dynamic field of engineering.

Sergey represents a blend of theoretical knowledge and practical expertise, making him an invaluable resource for anyone looking to deepen their understanding of mechanical engineering in the oil and gas sector. His career narrative is a testament to a professional who is as much a scholar as he is a practitioner, driven by a passion for both teaching and technological advancement.