



# Kashif Kamran Toor

Highly skilled engineering specialist with over 20 years of experience in offshore structural design and technology development. I have held key roles in industry leading organizations such as Ørsted, Vattenfall and Ramboøll, specializing in structural integrity, foundation design and advanced fatigue analyses. Passionate about driving innovation, I actively contribute to international research and bridge the gap between traditional engineering and AI driven solutions. In addition to my engineering expertise, I have built a successful real estate investment portfolio, demonstrating strong skills in financial planning, risk assessment and strategic decision making. My ability to work independently, in teams and with diverse stakeholders has been crucial in driving project success. I also bring a deep understanding of cultural intelligence, enabling me to navigate global collaborations and deliver results across industries.

## Experience

### 2019-25 Lead Specialist - Vattenfall

- Technology development for offshore wind foundation design
- AI implementation for foundation cost estimation
- Advanced shell buckling analysis including pile-soil interaction using FEA
- Tech. support to O&M for structural integrity [advance FEA]

### 2010-19 Senior FEA Specialist - Ørsted

- Foundation design for offshore wind turbines
- Design Briefs for project certification
- Fatigue design of tubular/plated joints by FEA
- Design review and quality check of FE analyses

### 2007-09 Project Engineer - Rambøll Oil and Gas

- Structural Analysis of Jacket Substructures
  - Reassessment of various platforms in North Sea
- Clients: Dong Energy, Mærsk Oil And Gas, Amerada Hess, Conocophillips, Samsung Heavy Industries

### 2003-06 Design Engineer - TRACS HDD Denmark/Pedem Ltd. UK

- Design and development of drilling tool for various clients in Europe/US

## Publications/Conferences

- 2023 Fatigue calculation at hot spot in cope hole welded details using finite element analysis  
*10th Fatigue design International conference, November 2023, France*
- 2022 Driving induced fatigue damage calculation for flange and MP attachments  
*Speaker at 10th International conference Offshore Foundation, Bremen*
- 2020 Support/Substructure design and optimization using ANSYS/LS Dyna  
*Speaker at Institution of Mechanical Engineers' seminar*
- 2017 Assessment of Fatigue Strength of Welded Connections in Thick Plates  
*Kashif K Toor/Inge Lotsberg(DNV)*  
*Proceedings of the ASME 2017 36th International Conference on Ocean, Offshore and Arctic Engineering, OMAE2017-61143*
- 2014 Finite Element Analysis of Drilling Jar Connection  
*17 Nordic Seminar on computational Mechanics, NSCM17, Stockholm*
- 2012 Heat effects on Offshore Structures  
*Publication in ISSM 2002 in collaboration with ISTECS Europe, Berlin*

## Affiliations

ASME Member since 2002 (American Society of Mechanical Engineers)

## Languages

English, Danish, Urdu, Punjabi

## Education

- Technology and Innovation Acceleration Program (2023)  
[MIT-xPROQ](#)
- M.Sc. in Oil and Gas Technology (2003)  
[Aalborg University Esbjerg, Denmark](#)
- B.Sc. Mechanical Engineering (2000)  
[University of Eng.&Tech. Lahore, Pakistan](#)

## Training

- Steel Metallurgy for Non-Metallurgist
- Knowledge Contributor -Specialist Training
- Process Integration & Design Optimization
- Geometry Dimensioning & Tolerancing
- DNV-RP-C208 for ANSYS users
- Marine corrosion of Offshore Structures
- Project management, PM1+PM2
- Project and Process management
- Technology of Offshore Wind Energy
- Advanced Design of Welded Structures
- Advanced Topics in Structural Analysis
- Fatigue Failure
- ISO 19902 – Fixed steel Offshore Structures
- Advance Finite Element Analysis

## Skills

- ANSYS APDL/Workbench
- LS DYNA
- ROSAP(Ramboll Offshore FEA Tool)
- HAWC2-Aeroelastic code
- Autodesk Inventor
- Python, Mathcad

## Expertise

