**FORM F-3**

# Format Of Curriculum Vitae (CV) For Key Personnel of Consultant

(one CV form should be filled out for each team member to be assigned)

Name of Consultant: Vamsee Achanta, P.E.

Profession Naval Architect / Subsea Systems Engineering Expert

Date of Birth : 28-July-1980

Nationality: US Citizen

Membership in Professional Societies: Professional Engineer in State of Texas.

American Society of Mechanical Engineers (ASME), API Standards Committee working member (API-RP-16Q, API-RP-17G, API-RP-17G2)

Function assigned in Consultant Naval Architect / Marine Systems Analysis Lead

# Key Qualifications:

Give an outline of experience and training most pertinent to tasks on assignment. Describe degree of responsibility held on relevant previous assignments and give dates and locations. Useabout half a page.

VP of Engineering with 23+ years driving subsea/offshore projects from concept to decommission. Led teams of 20+ engineers delivering 100% on-time project completion across 100+ riser design projects worth $500M+ in total value.  
  
Key Areas of Expertise:  
• Marine Dynamic Analysis - Coupled analysis of floating systems (FSTs, FPSOs, LNG carriers) with moorings in extreme weather  
• Subsea Systems - Risers (SCR, TTR, Hybrid), Pipelines, Umbilicals, Manifolds, Jumpers  
• Digital Transformation - Implemented 50+ physics-based algorithms for real-time drilling and production analytics (20,000 wells)  
• Crisis Management - Engineering Manager for BP Macondo containment riser emergency response  
• Software Proficiency - AQWA, OrcaWave, OrcaFlex, ANSYS, Abaqus, COMSOL, Python, SQL  
• API Standards - Committee member for API-RP-16Q, API-RP-17G, API-RP-17G2  
  
Recent Project Highlights:  
• WoodFibre LNG Terminal ($1.8B) - Marine global analysis for dual FST berthing system handling 180,000m³ LNG carriers (99.5% availability)  
• Digital twins development using Python/AI reducing analysis time by 70%  
• Floundering analysis for litigation assistance using advanced time-domain marine analysis

# Education:

Summarize college/university and other specialized education of staff member, giving names of schools, dates attended, and degrees obtained. Use about one quarter of a page.

Master of Science in Mechanical Engineering  
Texas A&M University, College Station, TX  
Specialization: Offshore Structures & Marine Systems  
  
Bachelor of Technology in Mechanical Engineering  
Indian Institute of Technology (IIT), Madras, India  
  
Professional Credentials:  
• Professional Engineer (P.E.) - Texas  
• API Committee Member - API-RP-16Q, API-RP-17G, API-RP-17G2

# Employment Record:

Starting with present position, list in reverse order every employment held. List all positions held by staff member since graduation, giving dates, names of employing organizations, titles of positions held, and locations of assignments. For experience in last ten years, also give types of activities performed and client references, where appropriate. Use about two pages]

Dec 2023 - Present: Naval Architect, Alan McClure & Associates, Houston, TX  
• WoodFibre LNG Terminal Design ($1.8B project, British Columbia) - Detailed marine global analysis for 2 FSTs berthed side-by-side in 35m water depth with coupled analysis for extreme weather conditions  
• Designed mooring system handling 180,000m³ LNG carriers with 99.5% availability  
• Diffraction and mooring analysis for barges investigating mooring line failures in extreme weather  
• Floundering analysis of tug boats due to passing ships using time-domain analysis  
• Digital transformation: Developed digital twins for hull diffraction analysis in AQWA/OrcaWave and mooring analysis using OrcFxAPI and Python/AI  
• Software: AQWA, OrcaWave, OrcaFlex  
Client References: Available upon request  
  
Jun 2016 - Present: VP of Engineering, FDAS, Houston, TX  
• 6000 ft Water Depth Semisubmersible Production Vessel Design ($150M+ project) - Led feasibility study saving $30M through conversion strategy  
• Economic Analysis Platform for GoM Fields - Built SQL/Python analytics platform analyzing 200+ fields, reducing evaluation time from 2 weeks to 2 days  
• SEWOL Salvage Ship Critical Analysis ($20M emergency) - Delivered critical hull FEA analysis in 72 hours enabling safe lifting of 6,800-ton vessel  
• Secured $2M in follow-on contracts through technical excellence  
Client References: Korean government salvage operation, GoM operators  
  
Jun 2012 - Present: Engineering Lead Consultant, AceEngineer, Houston, TX  
• ExxonMobil Yellowtail ($2B field development, Guyana) - Analyzed 6 umbilicals in 6,000ft water depth, saving 12 vessel days ($6M savings) with zero installation incidents  
• Chevron Ballymore - Rigid jumper and manifold installation analysis with dynamic and resonance analysis  
• Talos Venice Limerock Field - Static umbilical installation analysis in 1,050m water depth  
• Circular BOP Design - Detailed FEA analysis for seals and connectors using nonlinear elastic-plastic analysis  
• 42-inch Pipeline Installation (Venezuela) - FEA analysis for thin-walled pipe (D/t=67) outside DNV code regime  
• Digital Twin Development - Automated analysis for drilling risers, TTRs, SCRs, LWCR with fitness for service per API 579:2016  
• Trendsetter Intervention System - Design for 1,500-10,000 ft water depths and 15,000-17,500 psi pressures  
• Corrosion Simulation - COMSOL modeling of damaged subsea mooring lines with electrochemical analysis  
Client References: ExxonMobil, Chevron, Talos Energy  
  
Sep 2017 - Dec 2020: Engineering SME for Data Science Team, Occidental Petroleum, Houston, TX  
• Production Optimization Platform - Deployed 50+ physics-based algorithms monitoring 20,000 wells in real-time (99.8% uptime)  
• Real-Time Drilling Analytics - Implemented bit position estimation (±2ft accuracy at 10,000ft), reduced drilling time by 18%  
• Production Surveillance System - Automated dynacard analysis, reduced ESP failures by 25%, improved well test validation from 70% to 95%  
• Deployed edge computing solution processing 1TB daily with <100ms latency  
• Achieved 35% reduction in non-productive time, saving $15M+ annually  
Client Reference: Occidental Petroleum  
  
Aug 2003 - Jun 2015: Engineering Lead, 2H Offshore Inc, Houston, TX  
• BP Macondo Emergency Response - Engineering Manager delivering complete containment riser design in 8 weeks (vs. typical 3 years), system contained 15,000 bpd during 2010 Gulf oil spill  
• Chevron Bangka SCR/Flexible Riser Design ($45M FEED) - Led design for 8 production risers in 300ft water depth, 18% weight reduction ($3M savings)  
• Major Project Portfolio (100+ projects): BP Thunder Horse/Atlantis/Horn Mountain integrity management, Chevron Jack/St.Malo SCRs, ENI Devils Tower TTRs, Shell/BP HPHT designs  
• API Standards - Committee member and author for API-RP-16Q (2016 release)  
• Global Clients: BP, Shell, Chevron, ExxonMobil, ENI, Murphy, Reliance across GoM, West Africa, Asia-Pacific  
Client References: BP, Shell, Chevron, ExxonMobil  
  
Awards & Recognition:  
• Multiple accolades for customer service and satisfaction  
• 100% track record for on-time and within-budget project delivery

# Languages:

For each language indicate proficiency: excellent, good, fair, or poor; in speaking, reading, and writing

English - Excellent (speaking, reading, writing)  
Telugu - Excellent (speaking, reading, writing)  
Hindi - Good (speaking, reading, writing)

# Certification:

I, the undersigned, certify that to the best of my knowledge and belief, these data correctly describe me, my qualifications, and my experience.

# Date:

Signature of Consultant 26/September/2025

Full name of Consultant: Vamsee Achanta, P.E.