

Name: Jaeyoung Lee, P.E.

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1811 Brea Ridge Trail, Katy, TX 77494

Education: MS, Ocean Engineering, Texas A&M University, College Station, Texas, 1991

BS, Civil Engineering, Inha University, Incheon, South Korea, 1980

Registrations: Professional Engineer, State of Texas, License No. 80236

Affiliations: FASCE (Fellow of American Society of Civil Engineers)

Summary: More than 30 years engineering experience with civil engineering and ocean engineering background. Familiar with offshore oil & gas pipeline projects from concept study, designs, and procurement/installation support. Experience includes both shallow and deep water pipeline design, construction consulting, and project management in the Gulf of Mexico, West Africa, Middle East, and South America.

JYL Consultant, LLC, Houston, TX, 03/2017 to Present

Chief Adviser and Managing Director

- Preparation of dynamic power umbilical qualification program procedures for LS Cable and System.
- Marketing strategy study of newly developed small diameter SAW pipes for Steel Flower.

TechnipFMC/Forsys Subsea, Houston, TX, 06/2015 to 03/2017 (1 year and 8 months)

Senior Principal Engineer

- Technip and FMC Technologies were merged in Jan. 2017 after successful operation of Forsys Subsea (a joint venture between Technip and FMC Technologies). Since assignment to Forsys Subsea from Genesis, worked as a Flowline Product Lead in Subsea Projects, North America.
- Key assignments: R&D studies, pipeline design procedures and guidelines, FEED of BP Hopkins in GOM, preparation and training of pipeline design tools including pipeline on-bottom stability, expansion estimate, and pipe-in-pipe design, etc.

Genesis Oil and Gas Consultants, Houston, TX, 12/2011 to 05/2015 (3.5 years)

Senior Principal Engineer

- Continued to work as a Flowline Lead after corporate spin-off from Technip USA for offshore field development projects in GOM and other countries.
- Major projects: Chevron Malange Pre-FEED (Angola, West Africa), detail engineering of PDVSA Dragon (Venezuela) and BHP Starfish (Trinidad & Tobago), etc.

Technip USA, Houston, TX, 11/1997 to 12/2011 (14 years & 2 months)

Senior Principal Engineer

- Project Manager for Murphy Thunder Hawk Tieback Option Study. Supervised subsea tie-in field layout, pipe sizing, and specifications for dual HPHT 8-inch wet insulated pipes in 6,000 ft of water depth.
- Deputy project manager for ATP Clipper project in 3,500 ft of water in the GOM. Duties include supervision of detail designs of 1-5" x8" oil PIP flowline, 1-5" gas flowline, and 2-flexible risers, and MMS permit application.
- Lead pipeline engineer for Zadco Upper Zakum Project (UAE), FEED of PDVSA Dragon (Venezuela), BP H2 FEED (GOM), FEED of Chevron Jack and St. Malo (GOM), FEED of Pioneer's Clipper (GOM), Chevron's Africa Malongo Terminal Oil Export (MTOE) pipeline (40-inch) FEED work, etc.

- Worked as a DSME Pipeline Representative at Stolt Offshore office in Paris, France for 1.5 years for ChevronTexaco Benguela Belize Project in offshore Angola, Africa.

Kvaerner R. J. Brown, Houston, TX, 11/1995 to 10/1997 (2 years)

Project Engineer

- Kvaerner R.J Brown was merged with Technip. Design and construction consulting on offshore pipe bundle towing projects for Enserch MC 441, Flextrend GB 117, and BPX Troika. Assigned to bundle towing vessel to observe bundle towing process and resolve engineering problems.

MPC International, Houston, TX, 01/1992 to 10/1995 (3 years & 10 months)

Marine Pipeline Engineer

- MPC was merged with Pegasus International. Assigned to onshore and offshore pipeline design and installation analyses for British Gas, J. Ray McDermott, Shell, Mobil, Agip, and Global, etc. Contracted and transferred to Hudson Engineering to prepare pipeline installation manuals (initiation, normal lay, A&R, single point lift, davit lift, etc.) for McDermott for 2 years.

Wellstream Corporation, Panama City, FL, 08/1989 to 10/1991 (2 years & 3 months)

Engineer

- Developed flexible pipe design program, designed flexible pipes per clients' requirements, and performed quality assurance tests for flexible pipe fabrications. Supported offshore construction of flexible pipeline on site.

Texas A&M University, College Station, TX, 09/1986 to 07/1989 (2 years & 11 months)

Teaching and Research Assistant

- Taught fluid mechanics laboratory class and performed model test to measure forces on trenched marine pipelines influenced by waves and current.

Daewoo Engineering Corporation, Seoul, Korea, 08/1982 to 06/1985 (2 years & 10 months)

Civil Engineer

- Designed general civil engineering works including survey, earth work, drainage, and pavement. Major works included Jeju Sports Complex, Okpo shipbuilding yard expansion, Pusan Marina, etc.

Korean Army, ROTC First Lieutenant, 02/1980 to 05/1982 (2 years & 4 months)

- Served as an artillery battery reconnaissance and survey officer.

Major Publications and Conference Presentations

1. Lee, J., and Wang, K.H., "Stability of Pipeline under Oblique Waves," Oceans 2001, Honolulu, Hawaii, 2001
2. Lee, J., and Herring, D., "Improved Pipe Hoop Stress Formula," Presented to Deepwater Pipeline and Riser Technology Conference, Houston, Texas, 2000
3. Lee, J., "Hydrodynamic Forces Induced on Trenched Marine Pipeline Influenced by Waves and a Current," Master's Thesis, Texas A&M University, College Station, Texas, 1991