

Jaeyoung Lee, P.E.

jlee@jyipeline.com

More than 30 years engineering experience mostly related to offshore pipeline design. Familiar with API, ANSI, and DnV codes for offshore pipeline and riser system designs. 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.

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

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

Professional Engineer, State of Texas, License No. 80236, Since 1995

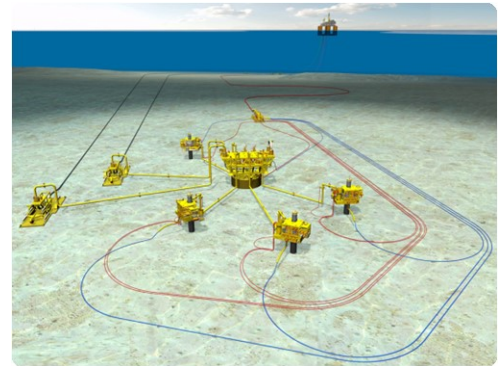
FASCE (Fellow of American Society of Civil Engineers), Since 2006

JYL Consultant LLC., Houston, TX, 03/2017 to Present, Chief Adviser

- Engineering consulting service for offshore field development including project management, feasibility study, FEED and detailed designs on offshore pipelines.
- Key projects: Marketing strategy study of newly developed small diameter SAW pipes.

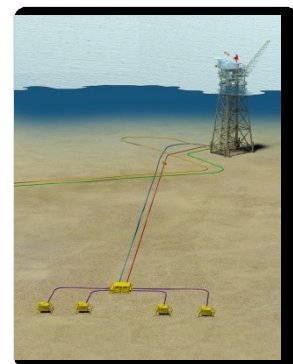
TechnipFMC/Forsys Subsea, Houston, TX, 06/2015 to 03/2017 (~1.5 years), Senior Principal Engineer

- 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.

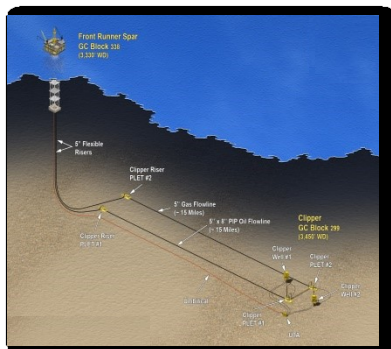


Genesis Oil & Gas Consultants, Houston, TX, 12/2011 to 05/2015 (~3.5 years), Senior Principal Engineer

- 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), Senior Principal Engineer



- Joined Aker Maritime (later merged to Technip) as a Principal Engineer in 1997.
- 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" x 8" 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 (left Technip and re-joined later) 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

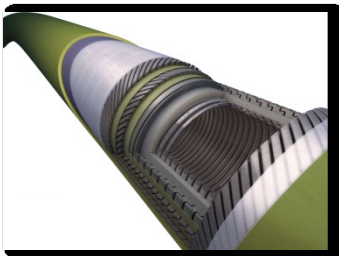
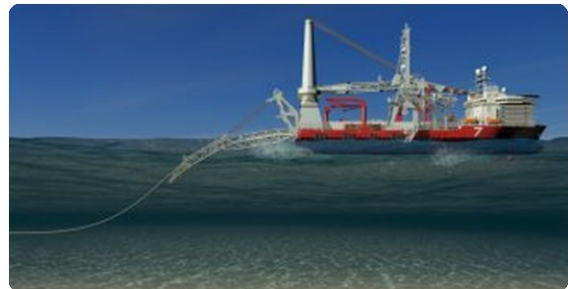
- Joined Kvaerner R.J Brown (later merged to Technip) as a Project Engineer in 1995.
- Design and construction consulting on offshore pipe bundle towing projects for Enserch MC 441, Flextrend GB 117, and BPX Troika. Assigned to bundle towing vessel to observe bundle towing process and resolve engineering problems.



MPC International, Houston, TX, 01/1992 to 10/1995 (~4 years),

Marine Pipeline Engineer

- Joined MPC (later merged to Pegasus International) as a Marine Pipeline Engineer in 1992.
- 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.

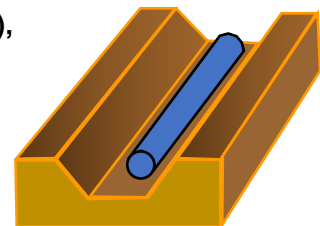


Wellstream Corporation, Panama City, FL, 08/1989 to 10/1991 (~2.5 years), Engineer

- Developed flexible pipe design program, consulted with respect to offshore pipeline installation, 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 (~3 years), Teaching and Research Assistant

- Taught fluid mechanics laboratory class. Performed research on dredging equipment automation and a model test to measure forces on trenched marine pipelines influenced by waves and current for the master's thesis.



Daewoo Engineering Corporation, Seoul, Korea, 08/1982 to 06/1985 (~3 years), 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, 02/1980 to 05/1982 (~2.5 years), ROTC First Lieutenant

- Served as an artillery battery reconnaissance and survey officer.