

JORGEN VILLHOLTH JENSEN, P. ENG.

Professional Experience Profile

Mr. Jensen has extensive all-round experience in civil and structural engineering, including management experience from operating his own consulting engineering services. He has been involved in project management, planning, design, and supervision of industrial and commercial projects, as well as a wide range of harbour and marine oriented projects.

Education & Professional Affiliations

- 1966 M.Sc. Civil and Structural Engineering, Technical University of Denmark
- Registered Professional Engineer of British Columbia
- Member, Danish Association of Civil Engineers

Professional Employment Record

June 1986 – present	Villholth Jensen & Associates Vancouver, BC President, Specialist Consultant, and Senior Design Engineer
1976 - 1986	Sandwell Inc. (formerly Swan Wooster Engineering Co. Ltd.) Vancouver, BC Project Manager and Senior Design Engineer
1967 - 1976	J. Villholth Jensen, Consulting Eng. Copenhagen, Denmark Principal and Senior Design Engineer
1966 - 1967	J. Hostrup-Shultz & O. Sorensen Copenhagen, Denmark Design Engineer

Technical Publications

Stabilizing Fill for Marine Piles Foundations: First Canadian Conference on Marine Geotechnical Engineering, Calgary, AB. April 1979.

Overdredging at an Existing Gravity Structure: Ports '86 Speciality Conference, Oakland, CA. May 1986.

Design Manuals & Computer Programs

Design Manual, Guidelines for design of Railcar Barge Ramps, 1983 (not published).

Computer programs for design of steel sheet pile retaining walls after Brinck Hansen's method, 1986 (not published).

Computer programs for design of cantilever steel pile dolphins after Dr. H. Blum's method, 1986 (not published).

Representative Projects

Assessment, planning, and detailed design of Run-of-River hydro projects	British Columbia
Planning, detailed design, and construction supervision of various marine structures, including multi-apron automated vehicle ramps and gangways at Horseshoe Bay, Tsawwassen, & Swartz ferry terminals.	British Columbia
Project management, planning, detailed design, and construction supervision of new shiploading facility.	Vancouver, BC
Planning and design of railcar barge ramps.	Delta, BC
Port master planning study.	Surrey, BC
Planning and detailed design of deep sea supply port for Misima Mine Project.	Papua, New Guinea
Project management, detailed design, and construction supervision of port development.	Port Qasim, Pakistan
Project management and detailed design of coal handling facility.	Roberts Bank, BC
Planning and design of passenger terminal.	Copenhagen, Denmark
Project management, planning, design, and construction supervision of container terminal.	Copenhagen, Denmark
Project management, planning, and design of multi-story office building.	Kastrup, Denmark

Selected Projects

Power Plants

Brandywine Power Plant: Planning, detailed design, and supervision (2002-2004)

Ferry Terminals

BC Ferry Corporation: Development and detailed design of fully automated passenger loading ramp at Horseshoe Bay Ferry Terminal. The ramp was designed to be able to serve vessels in two berths (1995-1996).

BC Ferry Corporation: Detailed design and construction supervision of marine structures to upgrade existing facilities at Tsawwassen Terminal (1993).

BC Ferry Corporation: Detailed design of new Double Deck S-Class Ramps for the Tsawwassen and Swartz Bay Terminals. The Swartz Bay facility also included all marine structures. The Tsawwassen ramp was completed in June 1991 and the Swartz Bay ramp was completed in June 1992.

BC Ferry Corporation: Development and conceptual design of new double ramp facility to serve the proposed new Super Ferries at Swartz Bay and Tsawwassen Terminals (1989-1990).

BC Ferry Corporation: Development and detailed design of a new type of ferry ramp with two secondary aprons designed to ensure smooth transition from land to ramp and from ramp to ferry at Horseshoe Bay Ferry Terminal Berth No. 1, 2, and 3 (1989-1990).

Marine Terminals - Planning & Design

Arrow Marine Services: Design and construction supervision of new 300 tonnes Marine Travelift support structures (1998-1999).

Johnston Marine Terminals Ltd.: Evaluation of existing facilities, study, and port master planning for the upgrading and expansion of the existing facilities at Fraser Surrey Docks (1988).

Pakistan Water and Power Development Authority (WAPDA) / Shawinigan Integ.: Pre-Feasibility Study for an imported coal fired power plant in Pakistan. Project manager and senior engineer responsible for the marine structures and related activities (1985-1986).

Port Qasim Authority: Project manager and senior design engineer responsible for design and overall supervision of concrete caisson wharf structures, piled wharf structures, and port facilities such as all utilities, office buildings, service buildings, transit sheds, and all pavings (1978-1984).

Det Forenede Dampskibs-Selskab A/S: Project management, planning, design, and construction supervision of passenger terminal for the Copenhagen to Oslo route, Port of Copenhagen, Denmark (1972-1973).

Det Forenede Dampskibs-Selskab A/S: Project management, planning, design, and construction supervision of container terminal, port of Esbjerg, Denmark (1971-1972).

Det Forenede Dampskibs-Selskab A/S: Project management, planning, design, and construction supervision of transit shed, Port of Copenhagen, Denmark (1970-1971).

Finska Angfartyg A/S: Project management, planning, design, and construction supervision of container terminal, Port of Copenhagen, Denmark (1969-1972).

Port Structures & Facilities

Pacific Elevators Ltd.: Project management, planning, detailed design, and construction supervision of new "Direct Hit" facility for specialty grain handling. The project included

civil and marine, structural steel, materials handling, shiploader modifications, and electrical (1993-1999).

Pacific Elevators Ltd.: Structural analysis and assessment of existing grain gallery structures. LaPointe Pier, Vancouver Port (1992-1993).

Vancouver Port Corporation: Study and detailed design for the stabilization, upgrading, and repair of an existing caisson pier which will form the initial section of a new container terminal development (1889-1990).

Vancouver Port Corporation: Study of stabilization and repair schemes for existing caisson pier, detailed design and construction supervision; LaPointe Pier, Vancouver Port (1998-1989)

Placer Dome Inc.: Planning and detailed design of ocean disposal facilities including a steel sheet pile retained truck dumping pier and shore protection works, Papua New Guinea (1987-1988)

Placer Dome Inc.: Planning and detailed design of a deep sea supply port for mining operations, Papua New Guinea (1988)

Pacific Elevators Ltd.: Project manager and senior design engineer responsible for design and construction supervision of new dolphin and overdredging at existing gravity structure at Berth No. 2, Pier No. 1, Vancouver, BC (1983-1984).

Nanaimo Harbour Commission: Project manager and senior design engineer for development and design of a compressed air operated RO/Ro barge ramp, Duke Point, Nanaimo, BC (1983-1984)

Canadian Forest Products: Project manager and senior design engineer responsible for planning, design, and construction supervision of railcar barge ramp facility, Port Mellon, BC (1982-1983).

Weyerhaeuser (formerly MacMillan Bloedel): Project manager and senior design engineer responsible for planning and design of railcar barge ramp, Harmac, BC (1982).

Ridley Terminals Inc.: Project manager and senior design engineer for the design of dumper pit and tunnel for coal terminal, Prince Rupert, BC (1982-1983).

Westshore Terminals Ltd.: Project manager and senior design engineer for the design of dumper pit and tunnel at Roberts Bank coal terminal, BC (1982-1983).

National Harbour's Board: Senior design engineer, planning, and design of Ro/Ro barge ramp facility, Fairview Terminal, Prince Rupert, BC (1978).

Akdeniz Mill: Senior design engineer, planning and design of port and barge terminal facility, Tasucu, Turkey (1977).

Port of Guacolda: Design engineer responsible for design of steel quadrant beam for ship loader, Chile (1976).

Imperial Oil: Design engineer responsible for design of offshore structures in the Beaufort Sea, Canada (1976-1977).

Industrial Projects

Molson Breweries: Vancouver. Design and construction supervision of new fermenting cellar structure to support six 350 tonnes fermenting steel tanks (1998-1999).

BC Ferry Corporation: Development and detailed design of restaurant building and passenger building. The passenger building was designed as a Post-Disaster building. Tsawwassen Terminal (1992-1993).

Pioneer Grain Terminal: Project management, design, and construction supervision of a two stories office building. North Vancouver, BC (1992-1993).

BC Ferry Corporation: Structural consulting engineer on the new control tower for the Swartz Bay Terminal, Sidney, BC (1993).

Danish Hydraulic Institut: Project management, design, and construction supervision of basin and building for hydraulic model testing, Horsholm, Denmark (1975-1976).

Scandinavian Airlines System (SAS): Project management, design, and construction supervision of air freight terminal, Kastrup Airport, Denmark (1975-1976).

Flight Training Center A/S: Project management, planning, design, and construction supervision of multi-story building with all installations, Kastrup Airport, Denmark (1975).

Sterling Airways A/S: Project management, planning, and design of multi-story office building, Kastrup Airport, Denmark (1975).

Buhl and Co. A/S: Project management, planning, design, construction supervision, and commissioning of complete factory for production of corrugated pasteboard, Koge, Denmark (1972-1973).

Niels Buhl: Planning and design of factory for production of corrugated pasteboard, Cairo, Egypt (1973).

Lars Foss Kemi A/S: Project management, planning, and design of plant buildings for chemical production in Denmark; Jakarta, Indonesia; Riyath, Saudi Arabia; and Abidjah, Ivory Coast (1972-1974).