

Curriculum Vitae

Philippe St-Hilaire

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LANGUAGE

French and English (Spoken and written)

EDUCATION

Bachelor of Engineering (Mechanical Engineering) 1985
Ecole Polytechnique, Université de Montréal

JOB EXPERIENCE

Engineering consultant

- Design of pressure vessels as per the requirement of ASME Code Sect.VIII div.1, for petrochemical plants (Imperial Oil and Shell);
- Design of storage tank as per the requirements of standards API 650, for petrochemical plants (Shell) ;
- Design of imbedded water intake for turbines, of a Hydroelectric plant, Mercier Dam , Hydro-Québec ;
- Evaluation of in-service equipment, pressure vessel, pressure piping. Elaboration of overhaul instruction;
- Elaboration of a quality control system for repair and alteration of pressure vessel, in a pulp mill;
- Maintenance engineer in a pulp mill (April to December 2005) ;
- Project management and site surveillance in a pulp mill:
 - ◆ Repair of pulp fabrication equipment (Digester, ClO2 Generator, Pressure piping,...) ;
 - ◆ Elaboration of technical specification for request of quotation to supplier ;
 - ◆ Monitoring of work on site and at supplier shop.

December 2003 – December 2005 Gestion Érables Technologies Val-Morin

Production Manager

- Responsible for the production of all contracts done at the company. Control the cost, the quality (under quality programs : ISO 9001, ISO 13485 'Medical devices requirements') and the achievement of the work in the time schedule of all contracts.
- Supervise the following department
 - ◆ Digitizing (CMM)
 - ◆ Programming (CAD/CAM)
 - ◆ Purchasing
 - ◆ 5 axis CNC Machine shop
 - ◆ Polishing Laboratory
 - ◆ Quality assurance
- Some achievement
 - ◆ Development and implementation of ISO 9001 & 13485 program until recognition by our customer.
 - ◆ Development of set-up and machine parameters to perform High-Speed Machining (HSM) on Titanium (6Al-4V).
 - ◆ Supervise the construction works of a new machine shop and office, inside our installation.

2003 July - December

Sinlab Inc.

Boisbriand

Engineering Consultant

- Design of Pressure Vessels, according to the requirement of ASME Sect. VIII div. 1.
- Design of Storage Tanks, according to the requirement of API 650.
- Case study of in service equipment, pressure vessels, pressure piping, define the overhaul instruction.
- Development of preventive inspection program for aging in-service Pressure Vessels
 - ◆ Inventory and prioritization
 - ◆ Environmental survey
 - ◆ Base line
 - ◆ Prioritization
 - ◆ Assessment
 - ◆ Recurring activities
- Field surveillance, project management.
 - ◆ Installations of pulping equipment (LP Feeder, Heat exchangers,...).
 - ◆ Pressure Vessels reparations.
 - ◆ Monitoring in manufacturing workshop

2001 Jan. – 2003

Gestion Érables Technologies

Val-Morin

Engineering Manager

- Supervise engineer technician and Engineering sub contractors.
- Define, assign, control and verify all design task within the limit of a quality program ISO 9001
- Responsible of technical liaison with engineering head office in Sweden.
 - ◆ Implementation of manufacturing procedures on the workshop (over haul of high and low pressure feeders).
 - ◆ Evaluation of technical adequacy of salesman bids.
 - ◆ Review the designs of Sweden equipment to ensure that they meet the North American regulations (Steaming vessel, flash cyclone...)

1999 June – 2000 Dec.

Kvaerner QTC

Ville de St-Laurent

Production & Engineering Manager

- Responsible for the production of all contracts done at the company. Control the cost, the quality (under quality programs : **ISO 9001, ASME Sect. III & VIII , CSA Z 299.2 & Nuclear 285**) and the achievement of the work in the time schedule of all contracts.
- Supervise the following department
 - ◆ Engineering, planification
 - ◆ Purchasing
 - ◆ Machine shop
 - ◆ Welding shop
- Responsible of technical liaison with the engineering head office in Sweden
 - ◆ Implementation of manufacturing procedures on the workshop (over hand of high and low pressure feeder)
 - ◆ Evaluation of technical adequacy of salesmen bids.
 - ◆ Review the designs of Sweden equipment of ensure that they meets the North American regulations (steaming vessel, flash cyclone...).
- Some achievement
 - ◆ Supervise the manufacturing of top assembly of a digester for pulp mill, Norkraft Quevillion inc., Lebel sur Quevillion (\$ 1.1 million)
 - ◆ Supervise the manufacturing of **shielded doors for a CANDU reactor** , NPM a division of Atomic Energy of Canada Ltd. , Qinshan, China (\$1 million).
 - ◆ Supervise the manufacturing of a product Cooler for a carbon black mill, Karbomont Inc, Montréal-Est (\$ 1.2 million)
 - ◆ Supervise the manufacturing of a API conti 2,500 liter mixer, for the chemistry Industry LIST AG, Switzerland, Arissdorf. (\$ 0.7 million)
 - ◆ Supervise the manufacturing of DTB conti 6300 liter mixer , for the chemistry industry ,LIST inc. , Boston , USA. (\$ 1.7 million)

1997-1999 June

Kvaerner QTC

Ville de St-Laurent

Planning Supervisor

- Development and implementation of ISO-9001 program until recognition by Quality Management Institute.
- Design of Pressure Vessel (ASME Sec. VIII Div. I), travelling cranes, testing equipment...
- Planning of all major projects to be achieved on the shop floor including supervision of planners.
- Supervision of procurement of raw materials, commercial parts and work to be achieved by sub-contractor's (including selection of suppliers, preparation of technical content of P.O., etc...)
- Some achievement :
 - ◆ Project Leader of Highway Transportation cask for Nuclear waste , Ontario Hydro Bruce Generating Power Station , Ontario (\$ 1.1 million).
 - ◆ Project leader of the construction of a nuclear research reactor KMRR , Atomic Energy of Canada Ltd., Hanaro , Korea, (\$ 1.0 million)

1989-1997 Corporation Outils Québec / Kvaerner QTC Ville de St-Laurent

Project Engineer

- Resolving of design deficiencies.
- Monitoring daily performance of projects on the shop floor.
- Establish schedules for production
- Developing special process procedure
- Supervising project assembly and testing.
- Some achievement :
 - ◆ Project Leader of the manufacturing of Preheaters & pressure Cyclones for Sunds Defibrators (Kruger Trois-Rivières, Bowater Nova Scotia, Gold river BC)
 - ◆ Project leader of the construction of Reactivity Mechanism Decks for Candu 900MW reactor , Ontario Hydro , Darlington power station (\$3.2 Millions)

1985-1989 Corporation Outils Québec Ville de St-Laurent

MEMBERSHIP & AFFILIATION

- Member of the Order of Professional Engineers of Province of Quebec
- Member of the ASM International, American Society of Metal
- Member of the ASTM, American Society of Testing an Material
- Member of the ASTM, American Society of Mechanical Engineer.

ENGINEERING ACTIVITIES

- Chairman of the «Society of Automotive Engineers »
SAE Montreal Section for year 1988 to 1989
- Secretary for the «Mini-Baja»
East Competition SAE 1988 and 1991
- Sponsor for junior engineers before they become members Of the Order of Professional Engineer of Province of Quebec

CONTINUOUS FORMATION

- Evening course (Master Level) at Ecole Polytechnique 1985-1998
 - Dec. '85 Experimental Stress Analysis
 - Dec. '86 Finite Element
 - May '86 Theory of Elasticity
 - May '87 Characteristic and Application of Metallic Material
 - May '88 Mechanical System of Power Transmission
 - Dec. '88 Control of Hydraulic Systems

TRAINING

- Oct. '98 Seminar on «Requirements for Design & Manufacture of Nuclear Power Plant components», ASME Sect. III, Div. I
American Society of Mechanical Engineers. (Montreal, PQ)
- June '96 Seminar on « Design & Fabrication of ASME Boiler & Pressure Vessel Code Sect. VIII Div. I »
American Society of Mechanical Engineers. (Seattle, WA)
- Oct. '95 Seminar on « Accounting & Finances for Non-Financial Executives»,
McGill University Management Institute
- Feb. '95 Overhaul Instruction of «High Pressure and Low Pressure Feeders»
for paper mill,
Kvaerner Pulping Technologies (Sweden)
- May '91 Evening Course «Computer Programming in Language C».
Université de Montréal
- Dec. '90 Seminar on «Project Management Process»,
McGill university Management Institute
- May '88 Seminar on Welding Standard W59 (Engineer),
Canadian Welding Bureau.
- Sept. '86 Seminar on Maintenance costs and Administration,
Collège d'Extension Cartier.