

William J. Dods

Objectives

- *Work in mechanical engineering design with emphasis on fluid mechanics to assist in development of ecological and sustainable solutions or technologies*
- *Obtain P. Eng designation (Registered as EIT, completed exam portion Aug 14, 2010)*
- *Obtain M. Sc. Marine Hydrodynamics (Expected completion Dec 2013)*

Summary of Qualifications

Mechanical Engineering Design

2 + Years

Recently worked as mechanical designer at Dymech Engineering. Responsibility was in producing simple designs and drawing packages and assisting on site fabrication for a variety of purely mechanical devices. Recently worked as a mechanical designer/project manager at Maple Leaf Environmental Equipment. Responsibility was in producing detailed design packages, for 8-10 soil remediation systems at a time, valued at an average of \$75 000 each, released on 6wk delivery schedules. Packages contained P&ID's, layouts, and control logic for production, and required customer approval. Prior to that, was responsible for coordinating design changes to rental systems, using new and existing components in a fast paced 1 to 3 week time frame, to meet emergency requirements.

Graduate Studies relating to Fluid Mechanics.

2 + Year Academic – Part Time

Currently registered in part time M. Sc. program at Carleton University for thesis designed to improve the prediction of the hydrodynamic coefficients of a submersed towed body. General interest in fluid mechanics is in applications relating to biomedical, environmental, marine and defense industries. Graduate courses enrolled or completed to date, include: experimental methods in fluid mechanics, introductory biomedical engineering, computational fluid dynamics, finite element analysis, introduction to aerodynamics and heat transfer, convective heat and mass transfer, biomechanics of the musculoskeletal system, advanced thermodynamics, contaminant hydrology, and advanced dynamics.

Technical Background, Business Experience

12 +Years

Obtained training, certification, and experience, as a Honda Marine, Power Equipment, ATV Technician and became familiar with advanced engine technologies, control systems, repair and maintenance procedures, then went on; first to Service Management and learned costing of repair orders, managing technicians, scheduling work, and budgeting with a demonstrated ability to multi-task, and maintain a professional image, in a fast paced demanding technical environment. Also acted as Parts Manager, en-route to Sales and finally Store Manager; with broad tasks involving legal, financial, operational, personnel, accounting, marketing, and customer service. Honda's emphasis on quality and engineering excellent, and their position as the world's largest 4 stroke engine manufacturer provided positive influence towards customer service, quality of work, cleanliness, and orderliness of operations.

Technical Skills

- | | | |
|--------------------------------|-----------------------|---------------------------------|
| • Mechanical Design
(2yrs) | • C++
(1yr) | • Mngt, cust. Service
(7yrs) |
| • Mechanic
(7yrs) | • Matlab
(1yr) | • Microsoft Suite
(12yrs) |
| • AutoCAD and ProE
(1-2yrs) | • Ansys, CFX
(1yr) | • Business Admin.
(5yrs) |

Professional Experience

Mechanical Engineer in Training (EIT), Tradesperson, Service Manager and Technician – Part Time
Willdo Mechanical, Manotick, Ontario, Dymech Engineering, Greely Ontario, William J. Dods, Ottawa, Ontario, and D. K. Dods Limited, Manotick, Ontario *May 2009 – Present*

- Responsible for producing simple designs and drawing packages and assisting on site fabrication for a variety of purely mechanical devices
- Independent and Incorporated repair and service of Honda Power Equipment, Marine, ATVs
- Responsible for operation of Parts and Service Department at D. K. Dods Limited during the shutdown process, including parts selection, estimates, parts and service orders, billing and customer service, inventory control, returns, technical assistance, warranty, and the majority of mechanical repairs.

Mechanical Engineer in Training (EIT)

Maple Leaf Environmental Equipment, Brockville, Ontario *Nov 2007 – May 2009*

- Designed, modified, and managed delivery of rental soil remediation systems and components.
- Did detailed mechanical design and project management of new soil remediation systems, using principles of Soil Vapor Extraction, Groundwater Extraction, and Air Sparging. Produced P&ID's and system layouts using AutoCAD, and created control logic. Communicated system designs with customers, and supported manufacturing.

Store and Sales Manager

D. K. Dods Limited, Manotick, Ontario *2004 – Nov 2007*

- Responsible for legal, financial, operations, personnel, accounting, marketing, customer service, and five operating departments. \$1.5 - 2 million revenue, staff of 10 -15.
- Responsible for inventory control, purchasing, advertising, direct contacts, quotes, and delivery

Accomplishments

Won 2005 Lund Boat Sales Award for Growth and Customer Service, Developed Policy & Procedure Manual and Task Management System, Achieved 50% growth in revenue in first three years, and achieved status as the leading retailer of Honda Marine products in Ontario for 2006 and 2007.

Education and Additional Training

Graduate Studies, including enrolment in M. Sc. – Fluid Mechanics

Carleton University, Ottawa, Ontario *Projected 2013*

B. Eng. Mechanical

Carleton University, Ottawa, Ontario *2004*

4th year project: Design and construction of FSAE race vehicle.

4th year electives: Aeroelasticity, Vibration Analysis, Computer Integrated Manufacturing, Fatigue and Fracture mechanics.

Technical Update Seminars/Continuous Training-Honda Canada MC/PE/MARINE

Honda Canada Training Division, Toronto, Ontario

Interests & Notes

- Adventure, **Athletics**, Canadian Arctic, Culture, Medicine, Nature, **Sports**, and Travel
- U.S. and Canadian Citizen
- Fluent in English and French