

# ROMAN LECH

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## EDUCATION

Ryerson University  
Toronto, ON  
BEng – Mechanical Engineering  
Specialization in Thermofluids

September 2006 – June 2010

### Relevant Courses/Training

- Project Management
- Risk Assessment and System Reliability
- Mechanical Design
- Engineering Design and Graphical Communication
- Thermal System Design
- WHMIS

**Professional Associations:** PEO (EIT), OSPE, ASME, ASHRAE, Certified SolidWorks Associate (CSWA - C-GAEM4GEHS8)

## ENGINEERING KNOWLEDGE AND SKILLS

As a qualified individual, I am able to

- manage projects taking into strict consideration performance, time, and cost
- read, maintain, and create 2D and 3D component and assembly drawings
- work well with a multi-disciplinary team
- effectively communicate ideas, concerns, and reports in oral and written form
- interpret blueprints and technical drawings and schematics
- understanding of geometric dimensioning and tolerance
- efficiently manage time and work under minimal supervision
- set schedules and track project progression

**Computer Knowledge:** OS – Windows, Programming Language – C, HTML, Microsoft Word, Excel, Powerpoint, Visio, Access, Project, AutoCAD 2010, SolidWorks 2011 (CSWA), MatLab

## EMPLOYMENT AND VOLUNTEER WORK

**RP Products – Designer/Drafter** (Waterloo, ON)

*April 2011 – Present*

Generate and maintain 3D CAD models and drawings of large complex machine assemblies. Produce detailed part drawings to be machined. Solve problems with manufacturability of parts, and assembly of machines.

**PEO – Certificate Ceremony** - Registry Desk (Volunteer)

*November 2010*

Help with the registration of certificate recipients and sales of photographs along with general setup and cleanup

**The Home Depot** - Sales Associate (Etobicoke, ON)

*April 2008 – April-2011*

Inform and assist customers with their purchases. Duties also included meeting with management to discuss future presentations as well as conducting presentations to customers taking on home renovations.

## ENGINEERING PROJECTS

**Thesis Project - Versatile Wheelchair** - Role: Project Member

Responsibilities: Assist in preliminary design as well as CAD Software (SolidWorks) coach. Lead member on modeling components, assembly and simulating.

**Diesel Engine Heat Recovery System** - Role: Lead Member

Responsibilities: Assign project roles as well as design an exhaust manifold using SolidWorks for the two engines as well as a heat exchanger to recover waste heat form the exhaust gases.

**Heat Exchanger Design** - Role: Lead Member

Responsibilities: Assign project roles as well as initial tube and shell calculations to determine modifications that will need to be done to the heat exchanger.

**Conditioning System and Duct Layout** - Role: Project Member

Responsibilities: Determine indoor and outdoor design conditions, minimum ventilation required for the house, design infiltration rates as well as simulate house and provide summary of performance and cost.

