

François Tardy, P.Eng. M.Eng. MBA

Education and training

2017 –	Concordia University	Montreal, QC
	Ph.D (Building Engineering) <i>Centre for Net-Zero Energy Building Studies</i>	
2012 – 2013	HEC Montreal	Montreal, QC
	MBA (Intensive / English) <i>HEC 2013 Team Captain at the Ross Energy Case Competition, Michigan</i>	
2003 – 2005	École de Technologie Supérieure	Montreal, QC
	M. Eng. (Mechanical Engineering) <i>Masters Thesis: A study of the use of heat pipes in thermal storage for cooling.</i>	
1997 – 2002	Université de Moncton	Moncton, NB
	B. App. Sc. (Mechanical Engineering)	

Professional experience

2012 –	Phoenix Énergie	Montreal, QC
	Consultant / Partner <ul style="list-style-type: none">• Expertise in grants and incentives for energy efficiency and carbon reduction.• Energy audits and energy efficiency projects of all types.• Long-term exclusive contracts with large organizations.	
2014 –	Concordia University & ETS Montreal	Montreal, QC
	Part-Time Faculty Member <ul style="list-style-type: none">• Engineering Management• Machine Design and Drawing• Engineering Economics• Theory of Machines• Project Management• Virtual Product Development• Thermodynamics• Mechanical Engineering Drawings• HVAC Design• Computer-Aided Mechanical Design	
2013 – 2014	Vanier College	Montreal, QC
	Teacher <i>Electricity and lighting courses, Building Science and Technology Department</i>	
2008 – 2012	PCO Innovation (Accenture)	Montreal, QC / Lyon, France
	Consultant <ul style="list-style-type: none">• (2012) IBM / Bombardier Aerospace. CATIA V5 / ENOVIA Support and sustainment for a global data migration project at involving Indian suppliers.• (2011) Volvo Powertrain Finance. Deployment of customized SAP financial system for production sites around the world. Global super user status and coordination at all levels between sites. Based in Lyon, France.• (2009) Volvo IT. Design standards and CATIA/ENOVIA VPM for suppliers in Spain.• (2008) Volvo 3P. Responsible for thermal measurement activities in Lyon, France.	

2010 – 2011	EH2solar	Blainville, QC
Director of Engineering		
<ul style="list-style-type: none"> • Chief engineer on the design, development and submittal for various cogeneration and desalination project proposals for California. • Responsible for efficiency and feasibility studies regarding submitted projects, SR&ED tax credit claims, patent applications, and other engineering duties. • Associations to various U.S. government agencies and power plant owners. 		
2008	Carrier / United Technologies	Laval, QC
Refrigeration Engineer		
<ul style="list-style-type: none"> • Chief engineer of refrigeration for the World Trade Center (NYC) submittal project at Carrier Corporation, one of the largest new development projects in the company. • Created one of the most innovative product simulation programs in the company and managed refrigeration activities on a full-scale experimental setup. • Managed the plants' customer service department and others, and provided engineering expertise on many internal projects. 		
2006 – 2007	École Polytechnique de Montreal	Montreal, QC
Research Assistant		
<i>Thermohydraulic design of a Ventricular assist device and study of its effects on blood flow. Expertise developed in Meshing, Gas Dynamics, Heat Transfer and Turbulence.</i>		
2005 – 2006	Bombardier Aerospace	Montreal, QC
Aerospace Engineer		
<i>Completed 1-year New Graduate Training Program, focusing on flight systems, avionics, stress, design, pneumatics, experimental, flight testing, and more, resolved a number of pneumatics and icing problems in CRJ and Challenger aircraft.</i>		
2002	Trans-F-Air	Saint-Hubert, QC
R&D Project Manager		
<i>Filters, refrigeration devices and design and optimizing of a compact mobile ice-storage cooling system. Hired and managed co-op students. ISO 9001 certification.</i>		
2000 – 2001	Public Works & Gov. Services Canada	Halifax, NS
Student Mechanical Engineer		
<i>Design and implementation of HVAC systems for federal buildings, research on alternative refrigerants, cost-estimating and redesign of systems.</i>		

Professional Accreditations	Full member of the Order of Quebec Engineers . USGBA LEED Green Associate
Languages	Canadian citizen. Trilingual; strong abilities in French and English, both written and oral. Advanced level in Spanish. Extensive experience in translation for large organizations.
Software and CAD Tools	<ul style="list-style-type: none"> • <u>ArcGIS ArcMAP</u> • <u>CATIA / Enovia LCA</u> • <u>Femlab 3.0 / Comsol Multiphysics</u> • <u>Autodesk REVIT / CFD</u>

Conferences	<p>« Comprendre l'énergie dans le contexte économique d'aujourd'hui »</p> <ul style="list-style-type: none"> • Club ÉnergieÉTS, Montreal (Canada), May 12th, 2016. • Conférence Internationale des Formations d'Ingénieurs et de Techniciens d'Expression Française, Montreal (Canada), August 24th, 2016. <p>“Filling the Industry Leadership Gap in Sustainability”</p> <ul style="list-style-type: none"> • Business Beyond Tomorrow, Montreal (Canada), March 18th, 2017. <p>« Les réalités économiques des énergies renouvelables »</p> <ul style="list-style-type: none"> • École Nationale d'Agriculture, Meknès, Morocco, May 11th, 2017. • Cadi Ayyad University, Marrakesh, Morocco, May 22nd, 2017.
Publications	<p>Building related energy poverty in developed countries — past, present, and future from a Canadian perspective Energy and Buildings 194, 2019, pp. 46-61</p> <p>Cooling and heating energy performance of a building with a variety of roof designs; the effects of future weather data in a cold climate Journal of Building Engineering 17, 2018, pp. 107-114</p> <p>Numerical Prediction of Thermal Storage Using Phase Change Material Journal of Technology Innovations in Renewable Energy 4(3), 2015, pp. 80-90</p> <p>Thermal analysis of heat pipes during thermal storage Applied Thermal Engineering 29(2-3), 2009, pp. 329-333</p> <p>An experimental study determining behavior of heat pipes in thermal storage International Journal of Ambient Energy 29(3), 2008, pp. 162-168</p> <p>A Study of the Use of Heat Pipes in Thermal Storage for Cooling Proceedings of the ASME Process Industries Division, PID, 2006, pp. 89-93</p>
Other	<p>Judge: 2016 – Engineering and Commerce Case Competition, Concordia University</p> <p>Judge: 2015- 2019 – School science fair, The Study, Westmount</p> <p>Member: Golden Key International Honour Society, Concordia University Chapter.</p> <p>ASP Construction Safety Card (Quebec)</p>