

RAHI AVAZPOUR

• Montréal, Quebec, H8Z 1V4

• Phone: 514-340-4711 Poly ex. 4272 Email: Rahi.Avazpour@polymtl.ca

EDUCATION

Sep 1995 - Sep 1999	Mechanical Engineering, 4 years B.Sc,	Tehran University
Jun 2000 - Sep 2008	Technical Training Center Same as: Engines Emission control, CNG , Multi fuel systems GB/AGB, Technical program: including 18 months for special courses	ITTC
Sep 2008 - Aug 2009	Quality management and standardization ISO (9000-9001-9002- 14000,18001), QS, QC OHSAS, QA	IMO
Jan2011- April2014	Master program, "Chemical engineering department – Energy and Sustainable Development	Ecole Polytechnique de Montréal
May 2014- in progress	Ph.D. program, "Chemical engineering department"	Ecole Polytechnique de Montréal

EXPERTISE

- Detection and analysis techniques: XPS, GC-MS, GC-FID, FTIR, TGA
- Microwave rotational heating and pyrolysis, Mixing and emulsification lab. setup
- Experimental design, statistical analysis and data processing
- Simulation and modeling: COMSOL, Simulink, Aspen plus, TRANSYS, RETScreen, HOMMER
- Microscopic analysis and Image processing
- Quality management: QA, QC, FMEA, ISO
- Teaching technical courses for over a decade at ITTC

POLYTECHNIQUE MONTRÉAL

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WORK EXPERENCE

Technical Expert July 1999 - Apr 2005

Energy efficiency modification for HVAC systems;

- Test plan preparation for engines adaptation;
- System optimization;
- Diagnosis operations;
- PM & Calibration program for laboratory equipments;

Apr 2005- July 2010

- Scale up engine emission control test stations for industrial mass production, various fuel systems modification using electrical multiplex systems;
- Develop analytical solutions for technological problems in the various engine fuel systems and catalytic convertor;
- Monitoring emission control methods;
- Industrial inspection including efficiency, environmental and safety considerations;
- Industrial and laboratory scale up of engine emission control standardization;
- Design/modification of multi-fuel system for low compress engines;
- Concurrently scale up engine management system, data acquisition, efficiency modification;

RESEARCH SKILLS

Ph.D. program May 2014- 2018

 Pickering emulsification, demulsification and phase separation and application of Pickering emulsion in mineral beneficiation as an industrial Ph.D. research project

- Rare earth elements REE's mineral physicochemical and surface properties
- Mineral processing and physical beneficiation, conventional froth flotation
- Size analysis technique to investigate emulsification and phase separation in laboratory scale

Master program M.Ing

Jan 2011- April 2014

- FTIR multi-gas measurements and the cross interferences uncertainties;
- Pyrolysis at laboratory scale used for a research project to development Pyrowave technique;
- Various energetic concepts used for sustainable development aspects of an industrial projects: (Geothermal design, solar panels, wind turbines, electrochemical and fuel cells, waste residual energy, bio-fuel and bio-refinery, energy efficiency and sustainable design)