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## OMID RABBANI

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### **EDUCATION**

**2008-2010** *Building Engineering-Construction Management, M.Eng. GPA 3.90*  
Concordia University, Montreal, CANADA

**2006-2008** *Civil-Environmental Engineering, M.S. GPA 3.72*  
K.N.Toosi University of Technology, Tehran, IRAN

**2000-2004** *Civil Engineering-Water, B.S. GPA 3.08*  
Azad University, Tehran, IRAN

**Relevant graduate coursework:** solid waste management, hazardous waste management, water and wastewater treatment, air pollution and control methods, marine pollution and control methods, numerical methods in environment, project management, construction processes, project cost estimating, building economics, construction planning and control, simulation for design and construction operation, decision analysis, business practices in construction industry, construction equipment management, rock mechanics, technical writing and research methods

**Award:** awarded Concordia University partial scholarship for international students (September 2009 - August 2010)

### **RESEARCH AND WORK EXPERIENCE**

#### **Cyclone Simulation Application**

May 2010 - August 2010

- Evaluated application of cyclone simulation in treatment process
- Modeled Fenton process in order to optimize capacity and the number of reactors in the process flow using time and cost factors

#### **Decision Analysis on Landfill Liner Selection**

May 2010 - June 2010

- Hypothetical evaluation of different landfill liner selection with respect to the cost
- Evaluated different alternatives under multiple uncertainties and presented the best possible alternative

#### **Research Assistant**

June 2008 - July 2008

#### **Solid Waste Management (SWM) Project; a project between K.N. Toosi University and Iranian Offshore Oil Company**

- Assisted in onsite SWM evaluation in three islands of the Persian Gulf
- Sampling and collecting data
- Assisted in final draft for recommendations to clients based on qualitative and quantitative data gathering

#### **Landfill Leachate Treatment**

August 2007- June 2008

- Reviewed application of biological and Advance oxidation processes in landfill leachate treatment
- Examined and experimented application of activated carbon in the Fenton process for landfill leachate treatment
- Designed and operated of lab scale reactors for Fenton process
- Collected and analyzed data

### **Other graduate-level course projects**

- Feasibility study of municipal solid waste (MSW) disposal
- Safety evaluation for trench excavation
- Analyze and evaluate the cost of green roofs for building projects
- Reviewed application of fast track in project delivery system
- Proposed simulation to assist value engineering applications in the construction industry
- Modeled simulation for backhoe and truck equipment for long distance earth moving processes
- Researched different types of mine backfills
- Reviewed control methods for ocean oil spill
- Reviewed control methods for indoor air quality in residential buildings

### **SKILLS**

**Computer:** Knowledge and working experience in Microsoft Word, Excel, and PowerPoint, as well as Timberline, Primavera, and Cyclone simulation programs EzStrobe and WebCyclone.

**Languages:** English, Farsi

### **PUBLICATIONS**

Sabour, M.,R., Ghanbarzadeh, M., Rabbani, O., “Evaluation of the main parameters affecting Fenton oxidation process in municipal landfill leachate treatment”, Waste Management & Research Journal, July 13, 2010.

Sabour, M.,R., Rabbani, O., Ghanbarzadeh, M., (2008) “Treatment of MSW Landfill Leachate Using Fenton Process and Activated Carbon”, The 14th International Conference on Advanced Oxidation Technologies for Treatment of Water, Air and Soil (AOTs-14), San Diego, USA

**References available upon request**