

RUSTON BEDASIE

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PERSONAL PROFILE

- Extensive critical thinking and analysis skills with attention to interpretation and evaluation
- Refined time management skills with the ability to prioritize and meet deadlines consistently
- Ability to work independently as well as cooperatively
- Demonstrates plenty of initiative and enthusiasm

EDUCATION

2008 – present	M.A.Sc. of Chemical Engineering Ryerson University, Toronto, ON Thesis: "Determination of mass transfer coefficients for ultrafiltration of latex paint solutions and an investigation of the effect of surfactant addition on the fouling phenomena of polycarbonate membranes" Expected date of completion: <i>August 2010</i>
2003 – 2008	B.Eng. of Chemical Engineering (Co-operative Program) Ryerson University, Toronto, ON Dean's List: 2006-2007; 2007-2008
1998 – 2003	British Advanced Levels British School of Brussels, Brussels, Belgium

EXPERIENCE/SKILLS

TECHNICAL EXPERIENCE

- Evaluated existing technologies for the removal of pharmaceutical compounds from industrial wastewater to develop research focus
- Redesigned experimental setup to achieve new goal and integrated automatic data acquisition using sensors and electronic balance
- Operated various machinery from the chemical process industry, including pumps, blowers, magnetic flow meters, optical pyrometers, etc.
- Prepared research report on industrial wastewater management using electrochemical methods for the recovery of heavy metals
- Conducted lab-scale experiments to develop novel and more efficient methods of biogas production from wastewater, leading to a pilot-scale study
- Completed batch analyses, monitored stability and shelf-life of urethane products
- Improved moisture-repellent & tensile properties of a moisture-cure urethane sealant
- Evaluated organometallic catalysts to synthesize stable, urethane prepolymers for a variety of products, from wood flooring adhesives to high-clarity doming resins
- Familiar with standard analytical laboratory practices
- Completed chemical component analyses with various instrumental method procedures such as Gas Chromatography, Infrared Spectroscopy, Atomic Absorption Spectroscopy
- Completed training in Workplace Hazardous Materials Information System (WHMIS); updated graduate laboratory registry of MSDS documents
- Excellent Computer Skills: Experienced in various Windows and Mac OSX based software: MS Office; AutoCAD; HYSYS; Photoshop; Programming in C/C++, MATLAB, and HTML

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LEADERSHIP & MANAGEMENT

- 2008-2010 VP Communications Ryerson University Water Environment Association of Ontario (WEAO) Student Chapter
- 2006-2008 VP External Chemical Engineering Course Union
- 2004-2005 Chemical Director, on the Ryerson Engineering Student Society board
- Member of student teams that organized events for the engineering students at Ryerson University and provided information about services available on campus
- Launched websites, brochures, and flyers to promote activities of groups
- Presented weekly tutorials and assisted in laboratory experiments as a graduate teaching assistant for groups of up to 50 students
- Assisted in developing better skills in reading and creativity for elementary level students; Collaborated with other students to design and organize arts and crafts projects for youth

MAJOR DESIGN PROJECTS

- **WEAO Student Design Competition 2009/2010 "Proposal for the Expansion of the Port Darlington WPCP"**
Selected activated sludge process incorporated with biological nutrient removal; Completed with assistance from industry professionals;
- **Plant Design: "Design of a Full-scale Soybean Oil Solvent Extraction Plant"**
Included Market and Economic Evaluation, Process Selection, Equipment Selection and Sizing, Process Control and Instrumentation, Environmental Impact Considerations, and Process Optimization with Heat Integration

WORK/VOLUNTEER HISTORY

Ryerson University

Graduate/Teaching Assistant (GA/TA)
Research Assistant (RA)

Sept 2008 – present
Sept 2008 – present

Chemque Inc.

Quality Assurance/Quality Control Technician

Jan 2007 – Aug 2007

Ryerson University

Call Centre Representative

July 2006 – Nov 2006

De Nayer Instituut, Belgium

Research Assistant

July 2006 – Aug 2006

PROFESSIONAL AFFILIATIONS

- Member of Water Environment Federation (WEF)
- Member of Water Environment Association of Ontario (WEAO)
- Member of Canadian Society of Chemical Engineering

PUBLICATIONS

Bedasie, R., Lobo, L., Szewczuk, T., & Yan, K. (2008). Process Selection and Equipment Design of a Soybean Oil Solvent Extraction Plant. *Student Journal of Automation, Robotics, Mechatronics, and Manufacturing*, Vol 3, Iss 1, 12-19

REFERENCES AVAILABLE UPON REQUEST