

Goal

To obtain full-time employment in the sustainability sector, where my skills and experience can contribute to new benchmarks for compelling and profitable sustainability work.

Summary

- + Educated professional with over 3 years experience in business sustainability, standards, environmental assessment, Life Cycle Assessment, analysis/visualization of large datasets, supply chain analysis, software development, environmental management systems, greenhouse gas measurement, and risk analysis
- + Experienced in software development for the sustainability and energy sectors
- + Winner (Bronze) of recent Energy Apps for Ontario Challenge for energy conservation software
- + Experienced in international multi-stakeholder work for MIT Media Lab, MIT Center for Supply Chain Management and many Fortune 500 companies
- + Entrepreneurial and self-motivated, supportive team player, practitioner of knowledge-sharing and continual education

Professional Experience

My Green Neighbour - Toronto, Ontario

March 2013 - Present – Founder

- + Built public-facing energy efficiency retrofit software for educating and assisting homeowners and building residents
- + Provincially recognized through Energy Apps for Ontario Challenge

Sourcemap Inc – Cambridge, Massachusetts

October 2011 - January 2013 – Life Cycle Assessment and Management Consulting

- + Consulted with Fortune 500 company representatives on supply chain risk concerns
- + Used data management and data analysis strategies to isolate high-risk facilities and suppliers across individual products, geographic regions, and product families
- + Researched, designed, and implemented Life Cycle Assessment metrics and online tools to allow manufacturing and retail clients to identify critical issues
- + Researched, designed, and implemented enterprise supply chain software tools for communicating and visualizing supply chain data analysis results to decision-makers

University of Waterloo– Faculty of the Environment - Waterloo, Ontario

September 2008 - December 2010 – Teaching Assistant

- + Assisted Teaching Environmental Management Systems, Environment and Business, and Ecological Economics
- + Responsible for grading, holding office hours, and facilitating discussion groups

Canadian Standards Association– Climate Change Services - Ottawa, Ontario

January 2008 - September 2008 – Greenhouse Gas Officer

- + Assisted in the development of instructional documentation on Greenhouse Gas Reporting based on ISO 14064
- + Developed content, graphics, databases and web applications for Government of Manitoba Climate Change website, including online dynamic residential and business greenhouse gas calculators: [<http://www.greenregistry.org>]

Environment Canada – Environmental Protection Operations Division (Ontario Region) - Toronto, Ontario

May 2007 - September 2007 - Assistant Waste Management Officer

- + Researched and wrote “An Analysis of Scrap Tire Diversion in Ontario” for ministry use, a document that outlines Ontario’s current scrap tire situation and analyzes the methods available to the province to create a sustainable scrap tire management system
- + Developed a data management database system and automatic data analysis reporting tools for ministry surveys

Ontario Ministry Of Environment: Corporate Correspondence Unit – Toronto, Ontario

September 2006 - December 2006 - Assistant Correspondence Officer

- + Managed, edited, and organized the Minister’s correspondence
- + Worked on the development of a environmental youth website, including producing consulting documentation on improving the site’s user experience, message, tone, and content: [<http://www.obviously.ca>]

Education

Masters of Environment and Resource Studies

September 2009 – September 2011

University of Waterloo, Waterloo, Ontario

- + Worked as a visiting student at the Massachusetts Institute of Technology Media Lab
- + Developed the first publicly available Semantic Web environmental impact/LCA database [<http://www.footprinted.org>]
- + Analyzed impact of existing LCA data standards on the uptake of LCA data
- + Outlined best practices for disclosing LCA data

Honours Co-op Environment and Business

January 2004 – May 2009

University of Waterloo, Waterloo, Ontario

- + Group thesis work culminated in analysis of Total Cost of Ownership of computer equipment for Ontario school boards
- + Key Classes: Environmental Management Systems, Waste Management, Ecological Economics

Skills

Sustainability: Life Cycle Assessment (ISO 14040), Greenhouse Gas Emissions Inventories (ISO 14064), Environmental Management Systems (ISO 14001), Risk Analysis

Analysis: Risk Analysis, Data Analysis, Data Management, Report Writing, Research

Software development: HTML, CSS, Javascript, PHP, Python, MySQL, MongoDB, SPARQL

Awards

- + Bronze Award – Ontario Energy Apps Challenge for Energy Tipper – February 2014
- + First Runner Up – Ontario Energy Apps Challenge for My Green Neighbour – February 2014
- + Pivot Design Group UX Award at the MaRS Energy Hackathon – September 2013
- + Winner of the 2008 TD Go Green Challenge with proposal entitled “My Green Neighbour – Residential Energy Efficiency Loans for Canadian Investors” (25,000 CAD)
- + Spring 2007 Co-op Work Report Award

Presentations

- + Presenter : Sayan, B., Lewis, G., Dias, G. *The Importance of a Standardized Framework in Biofuels Studies*. ISIE 2011 (Berkeley, CA, June 7-10, 2011).
- + Presenter : Sayan, B., Young, S. *Gauging Attitudes and Subjective Norms about New Approaches Relating to Data in the Life Cycle Assessment Community*. ISIE 2011 (Berkeley, CA, June 7-10, 2011).
- + Presenter : Bonanni, L., Ebner, H., Hockenberry, M., Sayan, B., Zapico, J., Brandt, N., Csikszentmihyi, C., Ishii, H., Turpeinen, M., Young, S. *The Open Sustainability Project: a Linked Data Approach to LCA*. LCAX 2010 (Portland, OR, Nov 2-4, 2010).

Certifications

- + The Natural Step – Level 1
- + LEED Green Associate

Volunteer Experience

January 2014 - Present *Big Sister - Big Brothers Big Sisters Toronto*
Provide guidance and mentoring to a young girl in Toronto through weekly visits.

October 2013 - January 2014 *Computer Media Workshop Leader - Regent Park Focus*
Lead free workshops on technology and computer programming for children in the Regent Park community.

April 2013 – May 2014 *Project Manager - Career Skills Incubator*
Design and develop an open source web application for facilitating mentoring and goal-setting for the (un)/(under)employed.

April 2013 – Present *Volunteer - The Toronto Clothing Repairathon*
Teach sewing skills, raise awareness, and build community around reducing clothing waste.

April 2013 - January 2014 *Mentor - Ladies Learning Code & Girls Learning Code*
Mentored young girls and adult newcomers about technology and computer programming in order to build their enthusiasm and confidence and interest in computer-related interests.

Thank you for your consideration. Please feel free to contact me should you have any questions.