

JOHN WILLARD

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EDUCATION

UNIVERSITY OF MICHIGAN **Ann Arbor, MI**
Master of Science: Natural Resources and Environment: Sustainable Systems, April 2012

- Emphasis: Energy Systems Engineering, Sustainable Product Design, Corporate Environmental Strategy, Biomass Energy
- Member: Ross School of Business Energy Club, Michigan Energy Club Social Chair

UNIVERSITY OF WASHINGTON - Professional and Continuing Education **Seattle, WA**
Geographical Information Systems (GIS) Certificate, June 2010

- Student Award for construction of wildlife habitat corridor assessment of Mercer Island, WA
- Presenter: Washington State Urban and Regional Information Systems Association Conference

UNIVERSITY OF WASHINGTON **Seattle, WA**
Bachelor of Arts, History, March 2008

- Three Year Dean's List

EXPERIENCE AND PROJECTS

Summer 2011 – Present **EMERSON ELECTRIC – INSINKERATOR DIVISION** **Racine, WI**
Environmental Consultant – Research and Development Engineering

- Produced sustainability assessment for product development engineering to reduce greenhouse gas emissions from the manufacturing food waste disposers by 15%
- Constructed copyrighted US wastewater treatment database to support environmental marketing strategy and increased infrastructure assessment coverage for target cities
- Formulated food waste disposer acceptance metric for top metropolitan statistical areas, identified key markets for strategic investment planning

Winter 2011 – Present **SWEDISH BIOGAS INTERNATIONAL** **Flint, MI**
Student Consultant – Masters Project

- Conducted life-cycle-analysis team project on Swedish Biogas Facility to evaluate environmental benefit opportunities for value-added products of commercial-scale biogas production
- Developed region specific economic model to compare retail sale of biogas, biosolids and biomethane to optimize strategic financial plan for the facility

Winter 2011 – Present **UNIVERSITY OF MICHIGAN** **Ann Arbor, MI**
Geographical Information Systems Research Analyst

- Created spatially explicit life cycle methodology for analyzing carbon and energy footprints of delivered water; informing improvements for 3% of California's total energy use
- Drafted \$100,000 research proposal to generate a weighted overlay analysis data layer to inform green infrastructure development decisions in the Detroit area

Winter 2009 **UNIVERSITY OF WASHINGTON** **Seattle, WA**
Research Assistant, Foster School of Business

- Assisted Business Ph.D. candidate with research for dissertation focusing on the value of corporate venture capital for new ventures; featured in the *Strategic Management Journal*

2008 – 2010 **THE RAINIER CLUB** **Seattle, WA**
Membership Coordinator

- Established new programming committee for social business club with the focus of attracting membership from environmental industry professionals, resulting in \$7,000 of additional revenue
- Integrated membership database with web interface resulting in improved marketing capabilities and encouraging advanced online reservations by 120%
- Negotiated contract with postage and mail service provider to reduce costs by \$1,500 annually
- Led an inter-departmental team to establish new waste management practices resulting in diversion of 300 tons of solid waste and savings of \$13,000 annually

ADDITIONAL

- Led mountaineering expedition in northern Canada in 2007 through the National Outdoor Leadership School; mastering concepts of *Leave No Trace Practices*, climate change, environmental ethics, and leadership principals
- Personal interests: Whitewater kayaking the Snoqualmie River, amateur documentary filmmaker