

Rosemary R. Yardley, EIT, LEED Green Associate

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Education **Cornell University**

Master of Engineering, Department of Biological and Environmental Engineering | 2014

Bachelor of Science, Department of Biological and Environmental Engineering | 2013

Experience

Founder & Owner, Web Development | Rosemary Yardley Design, Breinigsville, PA | 2019 - Present

- Strategically design and develop websites to help business clients meet their goals using computer programming & design skills
- Market, network, present and sell services over the phone and in person at events and conferences
- Coordinate and negotiate with subcontractors as needed for supportive services and manage communications with clients
- Manage projects & perform tasks such as developing proposals, scope of work, time & cost estimates and projections

Design Engineer, Water Resources | Johnson, Mirmiran & Thompson, Allentown, PA | 2017 - 2019

- Perform storm drain, stormwater management, erosion and sediment control design & computations with modeling programs
- Design and inspect innovative green stormwater infrastructure and SWM BMPs in both urban and rural environments
- Design and draft site plans and conceptual layouts using Google Earth, AutoCAD Civil 3D and MicroStation
- Research, review and compile relevant regulations for permit applications and project compliance
- Engage on the phone and in person with external project stakeholders to discuss project requirements and permitting

Associate Engineer, Energy Consulting | The Stone House Group, Bethlehem, PA | 2015 – 2016

- Analyze data from construction documents & specifications to develop energy models with Trane TRACE to optimize systems
- Perform design-phase commissioning review of mechanical, electrical, and plumbing drawings
- Perform commissioning inspections and energy audits for buildings during and after construction
- Consult on sustainable design with tasks such as LEED administration and climate action planning
- Write proposals and perform cost analyses for construction projects up to \$25 million

Environmental Engineer II, Environmental Consulting | Amec Foster Wheeler, Kennesaw, GA | 2014 – 2015

- Analyze, map, and report chemical and hydrogeological data in support of remediation projects using ArcGIS
- Develop groundwater models for contaminated sites, using site data and Processing MODFLOW
- Evaluate and optimize remediation programs, including statistical analysis using Microsoft Excel and MAROS
- Write work plans for groundwater monitoring and prepare technical reports for remediation projects
- Present modeling results and optimized remediation programs to project managers and external project stakeholders

Field Coordinator/Researcher | U.S. Forest Service, Pacific Northwest Research Station, Juneau, AK | 2013

- Lead group of 4 people to conduct fieldwork in remote sites
- Install and monitor temperature and pressure gauges, wells, and soil monitoring equipment
- Collect soil gas and stream samples, organize and analyze data with Microsoft Excel and ArcGIS

Teaching Assistant | Sustainable Development Course, Cornell University, Ithaca, NY | 2013

- Lead online chats and facilitate discussions about sustainability problems and innovative solutions
- Create assignments and discussion questions to meet course objectives and inspire students to explore sustainability
- Evaluate and provide feedback for 15 assignments every week and 2 projects

Program Chair | Society of Women Engineers, Ithaca, NY | 2012 - 2013

- Coordinate activities between outreach organizations on campus and general body of SWE
- Plan 5 outreach events with other campus clubs and organize volunteers

Student Researcher | The GREEN Program, Costa Rica | 2012

- Research & analyze wind, solar, hydroelectric, biomass, nuclear and geothermal energy facilities
- Develop and present a renewable energy capstone design project with a small group
- Build and install rain collection systems for community homes as volunteer work

Computer Skills: AutoCAD Civil 3D, PVSyst, ArcGIS, MicroStation, HEC-RAS, StormCAD, HydroCAD, FlowMaster, Processing Modflow, MAROS, MATLAB, SAM, MathCAD, SketchUp, Bluebeam, Python, R, Java, JavaScript, PHP, HTML & CSS