

Megan R. Ross

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OBJECTIVE: To obtain a full time position in Environmental Engineering.

EDUCATION: **Michigan Technological University** – Houghton, MI **8/02 - 4/06**
B.S. Environmental Engineering, GPA-3.51

EMPLOYMENT: **Resident Assistant and Peer Mentor** **8/03-Present**

Michigan Technological University – Houghton, MI

- Coordinated events to promote a healthy lifestyle
- Provided leadership and guidance to more than 80 peers

Environmental Engineering Intern **Summer 04, 05**

Metal Technologies, Inc: West Allis Ductile & Gray Iron Plants – West Allis, WI

- Drafted Operation and Maintenance Plans for air pollution control systems
- Performed solid waste mass balances for Form R reporting
- Created wastewater treatment plant drawings and process flow diagrams using AutoCAD
- Summarized landfill requirements and responsibilities for plant officials
- Documented wastewater treatment procedures for plant employees
- Estimated HAP and Criteria emissions
- Analyzed constituents in stormwater runoff
- Communicated with hourly employees and management

Tour Guide **6/03 - 4/05**

Michigan Technological University – Houghton, MI

- Created a relaxed, open and friendly atmosphere for prospective students
- Perfected route and university information to increase effectiveness

PROJECTS: **Aqua Terra Tech Enterprise** **Spring 04-Present**

KBIC Project: Our goal was to provide a working subsurface model of the Silver River Watershed.

- Instructed team members on use of Trimble GPS and SmartSeis
- Led and organized field investigations
- Drafted a field procedures manual to increase efficiency

Nicaragua Project: Our goal is to find a drinking water source and develop a distribution system.

- Investigating water quality testing methods
- Planning travel logistics

International Senior Design – Santa Cruz, Bolivia **Summer 05-Present**

Building Construction: Our goal was to assist with school construction

- Utilized non-verbal communication
- Learned how to mix and place concrete

Design Project: Our goal is to design a sustainable septic system for 1500 people

- Conducted site investigation and soil analysis
- Communicated with city engineers, the sub-mayor and school director
- Writing engineering report with feasibility analysis for six alternatives
- Preparing contract documents

Please see reverse side for more information
Communications Conference Coordinator

Spring 05

“Making Enterprise Work Visible”

- Evaluated needs of presenters
- Created a master schedule of events and programs
- Responded and resolved issues the day of the conference
- Served as the MC

SKILLS:

Technical

- Performed statistical monitoring and measurement analysis
- Carried out design, operation and analysis of the following pilot-scale water treatment processes.
 - o Sequencing Batch Reactors
 - o Air stripping
 - o GAC adsorption
 - o Ion exchange
 - o Jar Testing

ACTIVITIES:

Provided leadership for many organizations and activities not mentioned above such as:

- IVCF bible study leader
- Hall president and recycling committee chairperson
- Volunteer at retirement homes
- IM and HS competitive sports team captain
- Prepared Public Speaking
- FFA Agricultural Sales National Qualifier

A list of references can be provided upon request