

muchui@rpi.edu

42 Gillis St. Apt E Nashua, NH 03060 Cell: (603) 930-1415

OBJECTIVE

To obtain a full time position in an engineering or technological field.

EDUCATION

Rensselaer Polytechnic Institute (RPI), Troy, NY

May 2014

Bachelor of Science in Environmental Engineering

- Rensselaer Leadership Award
- In recognition of an outstanding record of academic and personal achievements, a strong commitment to excellence, and illustration of intellectual curiosity
- Rensselaer Grant

RELEVANT EXPERIENCE

International Business Machines Corporation (IBM), East Fishkill, NY Environmental Engineering Intern

- Designed on –site treatment process for Industrial Hazardous Waste which mitigated cost of off-site shipping on the order of \$100,000 biannually
- Problem solved and optimized issues with Ammonia Treatment System, CuS2 feed to fab and various other treatment systems
- Designed and conducted tracer testing on Nitrification Bays suspected of short-circuiting
- Extensive research, laboratory work, and consultation

Environmental Process Design

Spring 2014

- Led a team in designing a solar powered water intake structure for developing communities
- Satisfied multiple design constraints including regulations, safety, constructability, sustainability, and various stakeholder perspectives

Environmental Measurements

Fall 2013

Modern methods used in analysis of environmental samples for monitoring and research purposes.

Biological processes in Environmental Engineering

Fall 2013

Spring 2013

• Laboratory work in microbial techniques. Experimental analysis of natural and engineered biological processes, emphasizing experimental design, data evaluation, and report writing.

Physicochemical Processes in Environmental Engineering

• Completed a design project where I developed a computer model of a packed tower aeration system.

Introduction to Engineering Design

Fall 2012

• Designed and produced a self-sustaining sensor unit as part of a seven member team. I was responsible for the materials subsystem. I ensured that the materials used in the development of our sensor passed a Life Cycle Assessment matrix while alleviating cost.

SKILLS

Software

- MS Office, Lotus Notes, MATLAB, NX 7.5 CAD, HEC HMS, GIS, LabVIEW, Avid, Basic Python Languages
- Proficient in English and Swahili, and a working knowledge in *French* and *Japanese* Other
- ISO 14000, HAZWOPER, Bench scale Testing, Field Work, Sampling, Report Writing, CPR, First Aid, Self-starter, Self-management, Multitasking, Research

ACTIVITIES

Society of Environmental Professionals	
President, RPI	2012-2014
National Society Black Engineers	
Senator, RPI	2011-2012
Freshman Secretary, RPI	2010-2011
<u>Teams</u>	
Track and Field, RPI (Player of the Year, All-American Athlete)	2010-2014
Track and Field, Nashua North (Two-time All Star Athlete, Captain)	2008-2010

Volunteer Positions