

## MINH TRAN

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### **Objective**

Highly ambitious Environmental Engineer with extensive hands-on field experience strives to attain employment in the field of Water and Wastewater treatment in order to successfully employ a strong, well rounded skill set and current academic training

### **Background**

- ◆ Speaker at the 39<sup>th</sup> Annual Water Environment Association of Ontario (WEAO) Technical Symposium in London, Ontario presenting research paper entitled “*Application of Peracetic Acid (PAA) for Wastewater Treatment*”
- ◆ Representative for Carleton University in the Second WEAO Student Design Competition
- ◆ Garnered experience working in Water/Wastewater industry by undertaking several municipal projects
- ◆ Significant and avid interest in International Development of Vietnam and Southeast Asia
- ◆ Extensive work experience in a plethora of Engineering fields
- ◆ Environmentally conscientious and enthusiastic engagement in progressive Green technologies

### **Education**

**B. Eng, Environmental Engineering**      *Carleton University*      2007-2010

- ◆ Graduation Date: April 2010

### **Design/Research Projects:**

- ◆ 4<sup>th</sup> year Research project: Potential uses for Peracetic Acid (PAA): supplement to UV wastewater disinfection and wet weather flows (WWFs) treatment
- ◆ 4<sup>th</sup> year Design project: Port Darlington Water Pollution Control Plant (WPCP) expansion
- ◆ Research project: Liquid Waste Source Control Program for Orange County, California
- ◆ Design project: Water Distribution System for a small town.

### **Achievements**

- ◆ World Petroleum Council Scholarship recipient
- ◆ Sprott Award winner
- ◆ Vered Award recipient
- ◆ Morrison Hershfield Limited Award of Distinction
- ◆ Ontario Millennium Award winner

## **Experience**

- |   |                        |           |
|---|------------------------|-----------|
| <b>Student Engineer (Environmental)</b>   | <i>Niagara Region</i>  | 2009      |
| <ul style="list-style-type: none"><li>◆ Implemented a peracetic acid (PAA) disinfection study at Grimsby WWTP</li><li>◆ Helped setup, maintain, test, and analyze data for a full-scale PAA disinfection system</li><li>◆ Conducted an extensive total phosphorus removal study at Queenston WWTP</li><li>◆ Setup and ran a full-scale ferric dosing system and a sampling plan</li><li>◆ Effectively reduced total phosphorus concentration in effluent flow at Queenston WWTP</li><li>◆ Engaged in an odour control study by collecting grab samples and downloading loggers' data from the field</li><li>◆ Compiled, mapped, and analyzed collected odour control data</li><li>◆ Performed routine checks on the odour control equipment at the pumping station</li><li>◆ Troubleshoot loggers, pH probes, autosamplers, pumps and other equipment</li></ul> |                        |           |
| <b>Student Engineer (Electrical)</b>  | <i>JDS Uniphase</i>    | 1996-2000 |
| <ul style="list-style-type: none"><li>◆ Involved with the R&amp;D of Thermal-diffusion Expand Core (Tec) Fiber project</li><li>◆ Performed all detail-engineering tasks independently</li><li>◆ Extensively utilized optic and electronic testing equipment</li><li>◆ Conducted analytical research to help reduce the coupling loss of signals due to alignment</li><li>◆ Gained valuable knowledge of Fiber Optic Communication and Wavelength-Division Multiplexing</li></ul>  |                        |           |
| <b>Electrical Technician</b>  | <i>Nanometrics Inc</i> | 2000-2001 |
| <ul style="list-style-type: none"><li>◆ Involved in the design and testing of different Remote Sensing devices and networks used to monitor Earthquakes, Global Warming, Tsunamis and Volcanoes</li><li>◆ Constructed, setup and tested RF communicators and satellites</li><li>◆ Developed an extensive knowledge of seismological instruments in terms of hardware and software</li></ul>   |                        |           |
| <b>Dyno Technician</b>  | <i>MD Motorcycles</i>  | 2002-2008 |
| <ul style="list-style-type: none"><li>◆ Setup and operated a motorcycle dyno from the ground up</li><li>◆ Built and calibrated a dyno room complete with in-ground dyno machine, ram air exchange system, emission sensing system, and dyno computer network</li><li>◆ Dyno-tuned motorcycles for optimum horsepower performance while obtaining a CO<sub>2</sub> emission and fuel economy lower than that of factory specs. Extensive amount of time invested in trouble shooting dyno machine and motorcycles</li><li>◆ Applied comprehensive knowledge of thermodynamic processes, heat loss and energy efficiency during the tuning process to create high performance motorcycles</li><li>◆ Performed scheduled service and maintenance to several popular modes of Japanese motorcycles</li></ul>  |                        |           |

- Lab Technician (Intravenous Tech)**      *Desjardins Pharmacy*      2006-2007
- ◆ Developed a thorough and sound knowledge of aseptic technique
  - ◆ Calculated, mixed and compounded sterile products including antibiotics and chemotherapy in a sterile fume hood
  - ◆ Garnered considerable knowledge of medical terminology, intravenous solutions and pharmaceuticals

- Restaurant owner/builder**      *Mr. Saigon Restaurant*      2003-2005
- ◆ Designed, built, owned and operated a profitable new concept restaurant
  - ◆ Successfully interacted with staff and diverse clientele on a daily basis
  - ◆ Maintained accounts, payrolls and inventory
  - ◆ Introduced innovative marketing products, including creative menu ideas to broaden clientele

- Proprietor**      *Ottawa Garden (Landscaping Company)*      2001-2003
- ◆ Provided landscape project estimations and quotes
  - ◆ Coordinated project schedules and staffing requirements
  - ◆ Calculated cost analysis and maintained records of all financial accounts.

## **Skills**

- ◆ Able to successfully apply knowledge of Water Treatment, Wastewater Treatment, Water Resources, Contaminant & Pollutant Transport, Hydrogeology, Municipal Hydraulics, Environmental Assessment, Analytical Chemistry, Geotechnical Mechanics, and Environmental Chemistry to real world applications
- ◆ Actively pursue interest in Environment Data Network, GIS, Remote Sensing, Data Processing Techniques, Web/Print designs, and Electrical Soldering
- ◆ Computer literate in Microsoft Windows, Mac OS and Linux OS
- ◆ Very proficient with applications such as Excel, Word, PowerPoint, Visio, Publisher, InDesign, and Photoshop
- ◆ Adept at using C++, JAVA, MATLAB, MODFLOW, CAD, SWMM, BLENDER, SPSS, GrassGIS, QGIS and CSS
- ◆ Vietnamese spoken and written fluently
- ◆ Able to institute and maintain order in chaotic work environments
- ◆ Strong ability to successfully work in both a collaborative atmosphere and independent environment
- ◆ Enjoy and thrive while working in high-pressure atmospheres

## **References**

- ◆ Available upon request