

DYLAN M. VERBURG, EIT, MASc



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DylanVerburg

PERSONAL STATEMENT:

I am an enthusiastic, critically thinking and driven individual with a strong passion for learning and innovation. I have a strong interest in the areas of environmentally sustainable development, public education, technology and human rights.

EDUCATION:

Masters of Applied Science, Environmental Engineering
University of Windsor, Windsor, ON

Sept. 2016-April 2019

Bachelor of Applied Science Honours, Environmental Engineering
University of Windsor, Windsor, ON

Sept. 2012 - Aug. 2016

CORE STRENGTHS:

- * Strong leadership and management skills.
- * Experienced researcher, proficient in laboratory techniques and preparation of technical reports.
- * Excellent written and verbal communication skills. Superior teamwork practices gained through participation in various sporting teams, research groups and volunteer opportunities.
- * Comprehensive international management skills.

TECHNICAL SKILLS:

- * Experience in a variety of lab and field-based water quality parameter measurements.
- * Strong background in site surveying, monitoring and design.
- * Advanced experience level in the use of MS Office software.
- * Intermediate skills in AutoCAD modelling.
- * Collaborative development of advanced environmental models.
- * Novice programming skills in MatLab.

WORK EXPERIENCE:

University of Windsor, Civil and Environmental Engineering – Research/Graduate Assistant **Jan. 2016 – Apr. 2019**

- Application of lake modelling techniques to better understand and illustrate environmental parameter changes in a heavily contaminated aquatic environment subjected to aeration.
- Application of advanced oxidation principles towards treatment of wastewater.
- Communication of basic surveying and computer design concepts.
- Aid in instruction and tending to questions during weekly “office hour” sessions.

INpact Collective, Founder & CEO

Jan. 2018 - Present

- Development of social enterprise procuring, importing and resale of artisanal Indian products.
- Development of program to use proceeds to empower underprivileged Indian youth to attend school.
- Implementation of social media and digital communication modules related to company initiatives.

Chatham-Kent Engineering & Transportation, Project Assistant

May 2015 - Dec. 2015

- Project management and co-ordination with contractors and engineering consultants.
- Field experience in gathering GPS data points and updating GIS system.
- Design of repair schedules and replacement of bridge and drainage infrastructure.

Chatham-Kent Public Utilities Commission, Project Assistant

May 2014 - Sept. 2014

- Experience in updating and revising Municipal databases.
- Field experience in gathering GPS data points and updating GIS system.
- Co-ordination of projects to be completed by contractors.

Chatham Kent Recreation, Aquatic Supervisor/Lifeguard

Sept. 2010 – May 2018

- Experience in supervising, scheduling, conducting staff trainings, and creating employee evaluations.
- Proficiency in statistics tracking, payroll, and budgeting.
- Excellent public relation practices.

VOLUNTEER EXPERIENCE:

WINONE Outreach, Graduate Student Representative – University of Windsor

Sept. 2016 – April 2018

- Engineering outreach to Windsor-Essex high schools.
- Aid in engineering design problems, presentation of engineering concepts, answering questions regarding engineering as a profession and questions on transitioning to university life.

Civil & Environmental Engineering Council Student Representative

Oct. 2015 –Sept. 2017

- Served as a voice for the student body.
- Involvement, discussion and voting member on departmental matters.
- Development of proposals to improve committee function and student involvement.

CERTIFICATIONS & AWARDS:

- Engineering Intern (EIT) – Professional Engineers of Ontario (PEO) – License No. 100507081
- Association of Fundraising Professionals - **Outstanding Youth in Philanthropy Award.**
- 3 Minute Thesis Competition – **Regional Finalist.**
- 3M Invent a New Future Case Study – **Member of Winning Design Team.**
- Queen Elizabeth II Diamond Jubilee Scholarship Recipient.
- Awarded University of Windsor 2016-2017 Domestic Student Scholarship.
- Awarded University of Windsor Outstanding Scholars Bursary.

EXTRA-CURRICULAR INVOLVEMENT:

IC IMPACTS (The India-Canada Centre for Innovative Multidisciplinary Partnerships to Accelerate Community Transformation and Sustainability)

- HQP (Highly Qualified Person) involved in the demonstration of advanced aeration technology in improvement of water quality parameters in a wetland environment. Duration of project demonstrated at Sonia Vihar Lake, New Delhi, India. Industrial partnership with Canadian Pond.
- Supervised and participated in construction and installation of aeration assemblies making major and minor design alterations.
- Quantitative measurement of water quality parameters prior to and during operation of aeration units.
- Public outreach through development and presentation of education modules relating to research performed.
- Training of additional HQP to continue research in my absence. Training included laboratory preparation, site initiation, sampling protocols and preparation for cultural expectations.
- Design and implementation of high school outreach educational modules related to project work and socio-economic problems resulting in sanitation issues.

Erie Hack – Cleveland Water Alliance (2019)

- Project demonstrating novel solutions utilizing UAV technology and machine learning enhanced hydrodynamic models for nutrient monitoring and management in Lake Erie watershed.

ITOS Oncology – Windsor, ON

- Collaboration regarding novel diagnostics and treatment methods for various forms of cancer.

Windsor Cancer Research Group

- Student Member (Input on environmental conditions and its causation of cancer).

Hacking Health Windsor-Detroit, 2016

- Project Manager & Founder (Irradiated nanoparticle tumour and clot diagnostics).

PUBLICATIONS:

In Situ Health Restoration of Sewage Contaminated Lakes and Rivers

Dylan Verburg, Dr. R. Seth, Dr. R. Sharma, Dr. S.K. Goyal, Dr. R. Kumar
River Health: Assessment to Restoration – RHAR 2019 – Feb. 2019

Sustainable Solution for Remediation of Sewage Contaminated Lake in India (Research Abstract)

Dylan Verburg & Dr. R. Seth, P Eng.
Energy & Sustainability Symposium, Windsor ON – June 2018

Shifting the Paradigm for 60 million – How one Engineering Graduate Student is Turning Convention on its Head to Deliver a Vital Human Resource – Clean Drinking Water

The Voice of Ontario's Engineers (OSPE) – June 2018