

Yiran Xu

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Education:	MCMASTER UNIVERSITY – ENGINEERING AND PUBLIC POLICY Master of Engineering and Public Policy; Expected Sep 2019 Current GPA: 3.70	Hamilton, ON
	UNIVERSITY OF TORONTO Bachelor of Engineering & Applied Science; Environmental Engineering Minor; Sep 2014 Paper on Disco Road waste treatment project – Design new waste water treatment system and facility GPA:3.4	Toronto, ON
Experience: 2017-2018	PROJECT LEAD, UNIVERSITY OF TORONTO <ul style="list-style-type: none">Designed a new waste treatment system with higher capacity and efficiency for Toronto wastewater treatment plantConverted initial design into process flow diagram using AutoCADDesigned new waste treatment facility and reduce the pollution released by 20%Mastered the full operation principles of the entire wastewater treatment system	Toronto, ON
2016-2017	PROJECT TEAM MEMBER, UNIVERSITY OF TORONTO <ul style="list-style-type: none">Designed and manufactured centrifugal pumps based on the size and function requirementDrew the blue print of the design by handLearned how to use complicated tools such as milling machine	Toronto, ON
2016 Summer	LAB RESEARCHER, PHARMABLOCK INTERNSHIP <ul style="list-style-type: none">Designed reaction per requirement and performed Quality Testing of pharmaceutical products; presented results and sought approval for product batch to move down stream to manufacturingNeutralized by-product waste to ensure production process meet with environmental protection standardsResearched on different methods to improve efficiency of chemical reactions in pharmaceutical experimentsContributed in enzyme catalyzation technology design along with other lab researchers and performed testing on design	Nanjing, China
2015-2016	PROJECT TEAM MEMBER, UNIVERSITY OF TORONTO <ul style="list-style-type: none">Economic Evaluation of Petroleum Pipeline Project - Designed a best fit route for petroleum pipeline construction according to comprehensive evaluation resulting in saved cost of 30%Exposure Pathway Assessment of E-Waste Site, Guiyu, China - Analyzed the environmental damage of this e-waste site, designed methods to neutralize the pollution generated and released to the surroundingsDynamic Heat Transfer Project - Consulted on Energy Usage for a Firm's building	Toronto, ON
2015-2016	LABORATORY STUDENT, UNIVERSITY OF TORONTO <ul style="list-style-type: none">Performed weekly experiments in organic and inorganic chemicals, utilizing lab equipment, such as visible light spectrometry to ensure precise resultsCollected meaningful, accurate data and explained sufficiently and persuasively in lab reportsPassed the safety training test to become a lab researcher	Toronto, ON
2014-2015	PROJECT TEAM MEMBER, UNIVERSITY OF TORONTO <ul style="list-style-type: none">Cold Chain for Vaccination - Designed a unique storage and transportation method to determine a better storage method for the vaccine transportationStorage and Room Division Project - Redesigned and maximized the area usage for the client; overlapped some of the space to enlarge the usage efficiency and make the room seemed larger than the actual sizeHeat Ex-changer – built heat exchangers with different capacities and functions	Toronto, ON
Extracurricular 2015-2018	CO-FOUNDER OF BUDDA LIGHT CLUB, UNIVERSITY OF TORONTO <ul style="list-style-type: none">Co-founded the Budda Light Club to promote cultural diversity and mental health through Buddhism methodologiesOrganized New Year celebration event for the international students every yearHelped students with mental health and also provide scholarship for those with financial helps	Toronto, ON
2013 Summer	MEMBER – HABITAT OF HUMANITY <ul style="list-style-type: none">Traveled to poor area and helped locals build houses for 30 daysSuccessfully built one house in that location for a family of four	Guangdong, China
2012-2014	LEADER OF MODEL UNITED NATION CLUB IN HIGH SCHOOL <ul style="list-style-type: none">Lead team members in practice & training in preparation for the International Model United Nation competition at Harvard UniversityOrganized trip to Harvard University for the club and won the second place in the competition	Nanjing, China