

JADE ALEXANDER

CHEMICAL ENGINEERING
4TH YEAR STUDENT

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EDUCATION



2014- 2019

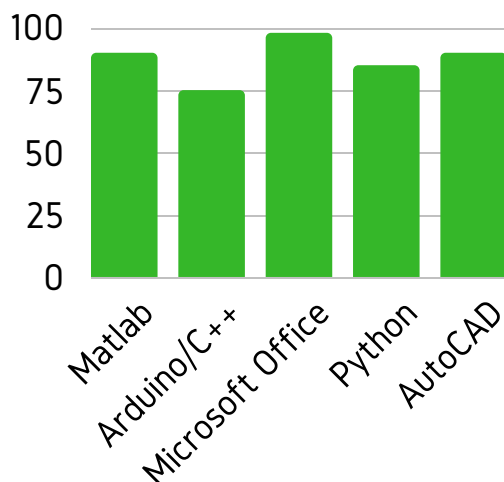
UNIVERSITY OF WATERLOO

Bachelor of Applied Science of Chemical Engineering, Co-op

RELEVANT COURSES

- Process Design
- Solid Waste Management
- Thermodynamics
- Heat & Mass Transfer
- Industrial Ecology
- Energy Systems
- Fluid Dynamics
- Chemical Kinetics
- Bioprocess Engineering
- Numerical Analysis
- Engineering Economics
- Materials Engineering
- Equilibrium Stages

TECHNICAL SKILLS



QUALIFICATIONS

- Project Management, AutoCAD & Excel
- Leadership Skills & Corporate Budgeting experience, demonstrated through my position as Coop Connection Coordinator, and successful administration as Student Body President
- Exceptional Interpersonal Skills
- Effective Communicator & Public Speaker
- Critical-Thinking Skills, demonstrated by quick alternative ideas during field installations as the project manager
- Team Player, who works diligently under little to no supervision

WORK EXPERIENCE

Engineering Coop | Safety-Kleen

SEPT 2018 - DEC 2018

- Launched maintenance planning system for proper upkeep and management of assets and equipment information
- Participated in HAZOPs, recommending engineering controls and other layer of protection against process hazards.
- Acted as Process Shutdown Coordinator, liaising between trade groups to coordinate scheduling and communicate progress updates by leading daily handover meetings.
- Built alarm/interlock database and reviewed them with plant Process Engineer to ensure appropriate operability margins are defined and enforced to better identify process upsets.

Process Engineering Intern| Whiting

Equipment Canada

JAN 2018 - APR 2018

- Conducted Heat and Mass Balances around evaporators, crystallizers and auxiliary equipment
- Created P&ID's and PFD's using AutoCAD
- Assisted with process and equipment design of flash tanks
- Prepared bill of materials for estimating cost of evaporator and crystallizer components, e.g vapour heads, top feed box
- Compiled Excel functions from interpolating century old physical graphs into Macros using Microsoft Visual Basic

Engineering Coop | Solvay

SEPT 2016 - DEC 2016

- Project Management of the installation of process equipment and updating of P&ID's via AutoCAD
- Liaised with contractors, maintenance and vendors to facilitate enhancement projects

PROFESSIONAL MEMBERSHIP

Executive Member & Violinist | Jesus Youth Group Waterloo

JAN 2015 - PRESENT

- Lead prayer meetings, facilitate icebreakers and play worship music during youth gatherings

Aquaponics Student Design Team

DEC 2014 - DEC 2015

- Innovate new ways to sustain a thriving environment for plants and aquatic life in man-made niches, by changing variables such as the plant/animal species, size of habitat etc.

Class Representative, Honours Chemical Engineering Class of 2019

SEPT 2014 - DEC 2014

- Continuously advocated for the academic success of 80+ students

SCHOOL INVOLVEMENT

- Coop Connection Coordinator
- Violinist in School Orchestra
- AfroFusion Dance Club Member
- Association of Caribbean Students Member
- Black Association of Student Expression Member

Violin & Piano Instructor | Marsman Music Centre

SEPT 2017 - PRESENT

- Increase confidence of students and prepare them for live performances.
- Coach beginner violinists in establishing and sharpening their bowing, posture, intonation and articulation.

Coop Connection Coordinator | Federation of Students (University of Waterloo)

SEPT 2017 - DEC 2017

- Plan, organize and manage the creation and execution of coop networking events by managing a team of City Ambassadors, finance officers, marketing managers and sponsorship executives
- Hire volunteers and event planners

Engineering Outreach Instructor | University of Waterloo

APR 2017 - AUG 2017

- Introduced a variety of engineering, business and programming skills to high school students through interactive competitions and labs

Web Analyst | School Messenger (West Careers Corporation)

JAN 2016 - APR 2016

- Provisioned websites; manipulated system controls to fulfill the needs and preferences of the client
- Updated school software, design portlets and migrated content using Cygwin, Sublime Text to enhance communications between students, staff and parents

VOLUNTEER EXPERIENCE

Compassion in Motion | Toronto, ON

JAN 2016 - PRESENT

Donate and hand out food, clothes, hygiene products to the homeless of Toronto

Violin Accompanist | St. Michael's (Waterloo) & St. Bernadette's (Ajax) Catholic Church

OCT 2014 - PRESENT

- Accompany the contemporary choir throughout Sunday mass
- Play within the Youth Praise & Worship band for Jesus Youth Meetings every Friday

Biomedical Research Assistant | Princess Margaret Hospital, Toronto, ON

DEC 2013 - DEC 2014

- Scanned and catalogued human tissue using biotechnological equipment
- Enhanced proficiency in Microsoft Excel, Access and PowerPoint