

# Benjamin Klassen

2B Civil Engineering | in/benklassen | 519-760-9229 | blklasse@uwaterloo.ca

## SUMMARY OF QUALIFICATIONS

- Background in tower and foundation design with field experience
- RISA 3D, MATLAB, AutoCAD, Civil 3D, Python, Microsoft Office, MicroStation, VBA
- Conducted tension and compression load testing for helical piles
- Spearheaded research about the effect of rime icing on the accuracy of structural capacity
- Highly coachable; quick learner that responds well to correction

## RELEVANT EXPERIENCE

### **Engineering Assistant - EBS Geoststructural** *Breslau, ON Jan. 2020 - Apr. 2020*

- Oversaw compression and tension deflection load testing
- Detailed shop drawings and wrote reports
- Assisted with installation of Chance® Helical Piles
- Discovered design features of helical piles, micropiles, and shoring
- Involved with interactions between contractors and subcontractors

### **Product Coordinator - Trylon Manufacturing** *Elmira, ON May 2019 - Aug. 2019*

- Modelled trusses and performed structural analyses with RISA 3D
- Selected lattice and guyed towers according to CSA S37-18 and TIA-222-G standards
- Piloted research into the effect of rime icing on towers to simulate loading more accurately
- Detailed foundation and truss profiles with AutoCAD
- Calculated factored surface areas and wind loadings with Excel
- Secured opportunities for Trylon by suggesting economic solutions to clients
- Translated geotechnical and site-specific wind reports from French to English

### **Electric Car Design** *Guelph, ON Sept. 2017 - May 2018*

- Redesigned an electric vehicle to work within specific competition boundaries
- Organized communication between team members through the Trello platform
- Competed at Waterloo EV Challenge; second place finish

## AWARDS AND CERTIFICATIONS

- Governor General Award - highest GPA of the Gr. 12 class (2018)
- School Champion - University of Waterloo Euclid and CSM Contests (2018)
- Toyota Motor Engineering and Manufacturing Scholarship (2018)
- University of Waterloo Engineering Entrance Scholarship (2018)
- University of Waterloo Presidents Scholarship (2018)
- VIP Award - leadership and social service (2017)
- Working at Heights (2020)
- G Class License (2019)

## ADDITIONAL EXPERIENCE

### **Classroom Lab Experience**

*Waterloo, ON Sept. 2018*

- Designed a LID parking lot
- Created site maps with Civil 3D
- Executed topographic surveys using Sokkia equipment

### **Pharmacist Assistant at Zehrs Pharmacy**

*Guelph, ON June 2016 - Feb. 2018*

- Communicated directly with doctors and pharmacists
- Calculated medicinal quantities to create pharmaceutical mixtures
- Professional and confidential with clients and medical professionals
- Ensured customer satisfaction in customer service

## PASSIONS

### **Hope House Volunteer**

- Participated in helping with the Children's Backpack Program
- Helped serve food to those in need
- Lead a weekly children's program for three months
- Assisted audiovisual team with operations and setup
- Acted as a weekly gardener for four months

### **Music**

- Previous member of a band
- Keyboardist for campus club Power to Change
- Royal Conservatory of Music (RCM) Certified Gr. 8 Piano

### **Athletics**

- Soccer intramurals
- Ice hockey intramurals
- High school tennis captain

### **Additional Involvement**

- Social Coordinator for campus club Power to Change
- Involved in the Best Buddies Program
- Cycled 80km in Ride for Refuge
- Helped organize participants in Coldest Night of the Year Walk
- Assisted with tree shredding for Trees For Tots

## EDUCATION

### **University of Waterloo**

*2018 - 2023*

Candidate for Bachelor of Applied Science, Civil Engineering, Honours, Co-op Program