

# Bhangu, Harjot

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| 438-404-4440 | harjotbhangu@outlook.com

**To whom it may concern,**

I am a student in the Civil Engineering Technology Program at Dawson College. As a requirement for the successful completion of this program students must work in an engineering related field during the summer between their 2<sup>nd</sup> and 3<sup>rd</sup> years of study in order to supplement their course work with some practical job experience.

During the course of the Civil Engineering Technology Program students learn a wide variety of engineering and construction related skills. I have taken the liberty to attach two documents outlining some of the typical skills acquired in this program.

I am interested in working with your company, not only to fulfill this requirement, but because I feel that the experience and knowledge I would gain would provide me with a much more rounded appreciation of the construction industry and the field of civil engineering.

I can speak and write 4 languages (English, French, Punjabi and Hindi), have earned the Safety Certification issued by the CNESST and have a driver's license.

I am a confident and discreet, and I am responsible, reliable and hardworking. I would definitely take full advantage of any opportunity by delivering my maximum effort. I believe that the skills I offer and the technical and computer proficiencies I possess would be an asset to your team.

My goal is to fulfill the internship requirement of twelve weeks, between May 21<sup>st</sup> and August 9<sup>th</sup>. I am available to meet with you at your convenience to discuss any positions that you may have available and look forward to meeting with you soon.

**Sincerely,  
Harjot Singh Bhangu**

# HARJOT SINGH BHANGU



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## Langues - :

- English
- Français
- Punjabi
- Hindi
- Urdu

## Certification

- Associate safety professional ( ASP )
- Driving License Class 5

## EXPÉRIENCE

### 1) Mr. Lube

2017

- Client services
- Oil changes and tire rotation
- Preventive Maintenance

### 2) Pneus Chartrand (Stage)

2016

- Client services
- Oil changes and tire rotation
- Preventive Maintenance

## ÉDUCATION

### Dawson College

2017 – Présent

Civil Engineering Technology

### Automotive Training Center

2016

Pre –Apprentice Automotive Technician Program

### High School Of Montreal Adult Center

2015

High School Diploma

## COMPETENCES

### General

- Can work alone and under pressure.
- Detail oriented.
- Professional.
- Team Spirit.
- Honest and Patient.

### Technical

- AutoCad.
- Revit.
- Microsoft Office.

# Civil Engineering Technologist

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## What Can We Do?

CET's are qualified to work in practical and technical aspects of construction for the private sector, as well as public facilities and infrastructure. CET's are trained in laboratory testing and reporting; project management; cost estimating of construction materials, equipment, and manpower; surveying; and computer drafting. The CET can work in building/project inspection and site supervision, and act as a liaison between the engineer and the project foreman.

## Competencies

The CET has followed technical training in the these disciplines:

- **Construction I and II**  
Residential, commercial, and industrial building materials and methods.
- **Surveying I and II**  
Topometry techniques; use of levels, transits, theodolites and Total Stations.
- **Drafting**  
Fundamentals of drafting, including software applications applied to civil engineering.
- **Soils I and II**  
Geotechnical laboratory courses also involving the theory of subsurface soil investigation, stress distribution, shear strength, and bearing capacity.
- **Municipal Engineering I and II**  
Water quality standards, drinking water distribution pipe network, sanitary sewer design, sewer pipes layout, inspect, operate, maintain and rehabilitate sewer and storm water pipes, storm and combine sewer systems. Familiar with FlowMaster, WaterGEMS, and SewerCAD.
- **Estimating**  
Reading of plans and performing quantity takeoffs and estimates.
- **Aggregates, Concrete and Bituminous Mix**  
Three laboratory courses in materials testing and reporting.
- **Structural Design**  
Structural analysis, strength of materials, and a design and drafting course for each of reinforced concrete, steel, and wood structures.
- **Project Management**  
Monitoring & measuring project performance, preparing bids and organizing site operations
- **Inspections**  
All aspects of buildings (steel & concrete), water systems, bridges
- **Engineering and Environment**  
Environmental impact of engineering projects & environmental measures for pollution prevention for air, water and soil. Analyze and design a simple municipal wastewater treatment plant, design septic tanks, manage municipal solid waste, sanitary landfills
- **Roads**  
Basic aspects of road project planning, preliminary design
- Familiar with CSA, ASSTM and BNQ laboratory procedures

As you see there is a need for the competencies of Civil Engineering Technologists in the workplace. The CET can act to provide the missing link and form a complete team when it comes to Civil Engineering projects.

# **LIST OF SKILLS ACQUIRED IN THE COURSE OF TRAINING AS A CIVIL ENGINEERING TECHNOLOGIST**

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1. Analyze the job function
2. Associate materials to civil engineering works.
3. Interpret plans and specifications.
4. Resolve problems in geometry and trigonometry related to buildings or public works.
5. Conduct a topometric survey.
6. Draw a plan.
7. Assume responsibilities with regard to health and workplace safety.
8. Solve algebra problems related to civil engineering.
9. Calculate the forces and loads applied to works.
10. Analyze the physico-chemical properties of building materials.
11. Solve statistical problems related to civil engineering.
12. Develop methods of manufacture for construction materials.
13. Perform site surveys.
14. Analyze the structural reactions for civil works.
15. Propose methods of construction or repair.
16. Analyze the geological characteristics of soils.
17. Propose solutions to environmental problems.
18. Inspect civil engineering works.
19. Perform engineering design of structural elements.
20. Develop professional relationships.
21. Provide oversight for site work.
22. Perform technical design of infrastructure projects.
23. Estimate the costs of construction or repair.
24. Participate in the development of a bid and the organization of work site.
25. Participate in the preparation of construction or rehabilitation projects.