

# Eyasu Bekele

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## EDUCATION

**Bachelor of Engineering - Architectural Conservation and Sustainability  
Structural Stream, Minor – Business**

**2014-2019**

### **Engineer-In-Training (EIT)**

- CGPA (3.3/4), Recipient of: Entrance Scholarship

## TECHNICAL ENGINEERING SKILLS

- High level of **AutoCAD**, **IntelliCAD**, **PTC Creo**, and **Revit** proficiency and the ability to participate in the production of full set of architectural design
- Ability to use **Steel (CSA S16-14)**, **Concrete (CSA A23.3-14)**, and **Wood (CSA-O86-14)** design handbooks for structural applications and perform design calculations
- Capable of using **eQUEST**, **Hot 2000**, and **THERM** energy modeling software obtained through applied projects
- Familiar with **SAP2000**, structural analysis and design software, gained through applied projects
- Strong knowledge of **Total Station**, and **3D Laser Scanner** used for heritage site recording and surveying purposes
- Knowledge of **project management, planning, scheduling, budgeting, cost estimation, cash flow diagrams** and **client communications**
- Preparation of various types of project management reports (**concept, specification, feasibility, preliminary draft, final draft** etc.)

## PROJECTS COMPLETED

### **Structural Frame Design**

**Sep 2018 – Dec 2018**

Carleton University, Ottawa, ON

- Used hand calculations to find supporting reactions and internal forces of a two-story frame building
- Analyzed the 3D dimensional two-bay braced frame using SAP2000

### **Developed a CLT Net Zero Office Building**

**Sep 2018 – Apr 2019**

Carleton University, Ottawa, ON

- Responsible for the design of an 8-storey net-zero office building located on 529 Richmond Road, Ottawa
- As part of multidisciplinary team of engineers, prepared Gantt charts, work break down structure and precedence diagrams to ensure a well coordinated project within deadline
- Produced floor plan and BIM design involving material details using Revit and AutoCAD
- Run and analyzed different energy model using eQUEST to obtain energy balance

- Wrote multiple technical reports and gave presentations to keep the lead engineers and clients updated on the project progress

### **Site Development**

**Sep 2016 – Dec 2016**

Carleton University, Ottawa, ON

- Following NBCC, National Building Code of Canada, produced a full-scale design for a 4-story building using AutoCAD and Revit
- Completed tasks such as Request for information, Budget deficiencies, Bidding, Cost estimation and Cash Flow diagram to minimize the total expense of the proposed building
- Worked attentively with teammates to produce professional proposal that meets the city's requirement

### **Heritage Site Recording and Assessment**

**Sep 2017 – Dec 2017**

Carleton University, Ottawa, ON

- Used ESRI ArcGIS software to locate the geographical location of York Courtyard
- Worked with Total Station to map the parameter of site and used a tablet that is loaded with Theolt and AutoCAD to design the site plan
- Used 3D Laser Scanner and rectifying photography to do an elevation plan of the site

## **WORK EXPERIENCE**

### **Remote CAD Drafter**

**Jun 2018 – Aug 2018**

Glimpse ArchViz & BIM Studio

- Worked with modifying existing CAD drawings, and material cost analysis
- Designed a 2D floor plan for various residential and office buildings
- Integrated preliminary sketch up drawings with Revit

### **Tutor Mentor**

**Nov 2016 - Jan 2018**

TutorBright, Ottawa, ON

- Helped students establish goals and timelines that break their assignments and projects down into smaller parts
- Assisted students determine what information they will need to study for quizzes or tests and practice answering anticipated questions with them

## **VOLUNTEER EXPERIENCE**

### **Executive Workshop Coordinator**

**Mar 2015 - Mar 2016**

Carleton University, Ottawa, ON

- Conducted office administration, sold course packs and prepared documents which increased the workflow rate
- Planned and organized events which strengthened individual's interest on working in teams

### **Fall Orientation Facilitator**

**Aug 2016 - Sep 2016**

Carleton University, Ottawa, ON

- Facilitated brainstorming sessions to create innovative ideas which increased attendance at social events and allowed the program to engage more students