



# Ali Bowman

Civil Engineer

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DRIVING LICENSE Full

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## 01 PROFILE

*Innovation inspired Civil Engineer with five years of experience in creating green environmental solutions for new residential building projects. Number conscientious and driven by a desire to improve quality, cost, and time metrics across all projects under management. Completed a Bachelor of Science in Geotechnical Engineering and currently in the process of completing the Professional Engineering (PE) exam.*

## 02 EMPLOYMENT HISTORY

Jan 2017 — Present  
Walnut Creek

### Civil Engineer III at Industrial Construction Projects

*Replaced Excel scheduling with Snap Schedule which generated a 30% uptick in work output and decreased third-party labor costs by 25% during the last six months.*

- Focus on designing solutions for monitoring water usage for rehabilitation projects conducted by mines in the area
- Responsible for surge analysis and mitigation designs
- Conduct required validation studies by building models to perform calibration and comparison activities simultaneously
- Create master plans for all stormwater infrastructure upgrades by collating draft plans from the junior engineers of the various project sites
- Design environmental efficient (green) water and sewer mains for six new gated estates

Jan 2014 — Dec 2016  
Seneca

### Civil Engineer II at Orion Excavation

*Project lead on excavation consulting projects of between 400 million and 900 million for large scale water and sanitation projects.*

- Assisting construction manager on mainly sewage rehabilitation and bridge widening projects over 50 million dollars
- Responsible for initial valuations of 10 project sites per month with accompanied damage survey reporting

- Evaluate flow impairment to waterways in the new metropolitan area and conduct risk reporting and projected damage control expenditure in case of extensive flooding or hurricanes
- Produce draft cost estimation reports for each site area using detailed location maps using ArcGIS
- Act as a community liaison to inform public and municipal agencies of upcoming projects that may affect access to roads in the area

Jan 2014 — Dec 2014  
Indian Trail

## Civil Engineer I at Smith & Robertson Commercial Building Projects

*Consulting Engineer on more than 400 complex building projects including sports stadiums, apartment complexes, industrial buildings, and luxury hotels.*

- Upgrade annual, quarterly and monthly project schedules on Suretrak and distribute to Project Manager
- Write memos and appraise monthly expenditure bill before submitting to a government office for approval
- Assist with feasibility studies and draft schematic planning of excavation sites
- Assist with civil design work for commercial infrastructure projects
- Check calculations of structural design for concrete material requirements relating to beams, columns, and foundations
- Coordinate construction activities between Senior Civil Engineers and Site Managers

## 03 EDUCATION

Jun 2019 — Present  
Seneca

## National Council of Examiners for Engineering and Surveying (NCEES)

Professional Engineering (PE) Exam

Jul 2015 — Nov 2017  
Atlanta

## Georgia Institute of Technology

Masters of Science in Civil Engineering

Achieved Summa Cum Laude

Majors: Geotechnical Engineering, Soil Composition, Geology

Jan 2011 — Jun 2014  
Los Angeles

## California State University

Bachelor of Science in Civil Engineering

GPA of 3.75

Curriculum: Construction Planning, Engineering of Earth Structures, Advanced Construction Methods, and Techniques

Overall Top performer in Construction Planning

## 04 SKILLS

Civil Engineering

Construction Management

Water Engineering

Waste & Sanitation Infrastructure

Mathematics

STAAD Pro

AutoCAD

Autodesk Revit

Structural Design

Schematics

Building Plans

Etabs

Earth Structures

Physics

Geotechnical Engineering

## 05 COURSES

Jun 2018 — Aug 2018

**AutoCAD Level II at CAD Masters Inc., Walnut Creek**

May 2016 — Jul 2016

**Advanced Civil 3D and Reality Capture at CAD Masters Inc., Sacramento**

## 06 LANGUAGES

English



Russian

