

# Ali Bowman

## Civil Engineer



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NATIONALITY	American	DRIVING LICENSE	Full
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## 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.*

## Employment History

Jan 2017 – Present

[WALNUT CREEK](#)

### Civil Engineer III

#### 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

#### 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

### 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

## 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

## Skills

Civil Engineering

Construction Management

Water Engineering

Waste & Sanitation Infrastructure

Structural Design

Schematics

Building Plans

Etabs

Mathematics  
STAAD Pro  
AutoCAD  
Autodesk Revit

Earth Structures  
Physics  
Geotechnical Engineering

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## Courses

Jun 2018 – Aug 2018

AutoCAD Level II  
CAD Masters Inc., Walnut Creek

May 2016 – Jul 2016

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

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## Languages

English



Russian

