

# A. Civil Engineering

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## EDUCATION

### **BS, Civil and Environmental Engineering**

Aug 2015 – Dec 2019

*Brigham Young University, Provo, Utah*

- 3.88 GPA
  - Institute of Transportation Engineers - Professional Forum Coordinator
  - Heritage Scholarship Award Recipient
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## SKILLS/ACTIVITIES

- Geographic Information Systems (ArcMap, ArcGISPro)
  - Spanish Proficiency
  - Computer Programming: VBA, Python, HTML, JavaScript, CSS
  - UDOT SRD TT, CTT, and Crash Cushion Certifications
  - AutoCAD Civil 3D
  - PTV Vissim
  - Nuclear Moisture-Density Gauge Certified
  - Hill Cumorah pageant performer (2017)
  - ASME Student Design Competition (2015)
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## PROFESSIONAL EXPERIENCE

### **Transportation Intern/Inspector**

May 2018 – Present

*ABC Engineering, Salt Lake City, Utah*

- Prepared final construction plans for the Omaha Rapid Bus Transit project using AutoCAD Civil 3D
- Led team of 5 to build preliminary VISSIM models for transportation projects in Texas and Arizona
- Completed WAQTC Transportation Technician Qualification Program, receiving 100% score on Sampling, Reduction, and Density Testing Technician certification exam
- Inspected and approved bid items for payment on various projects worth over \$10 million

### **Hydroinformatics Research Assistant**

August 2017 – May 2018

*Brigham Young University, Provo, UT*

- Arranged and presented company findings at 2017 GEO Plenary in Washington, D.C.
- Innovated time-saving methods for formatting streamflow data for use in statistical analysis saving an average of 2 hours per analysis
- Implemented Spanish language skills to obtain data and share test results with 15 water managers in Latin America
- Created visual presentations documenting work in the Dominican Republic with ESRI software

### **Intern/Field Technician**

May 2017 – August 2017

*DEF Engineering, Lindon, Utah*

- Generated thorough reports documenting soil and asphalt density tests in 25 different cities throughout Utah
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## RELEVANT COURSEWORK

### **Geometric Design of Highways**

- Created a preliminary re-design of a local intersection through AutoCAD Civil 3D

### **Urban Transportation Planning**

- Researched impact of shared mobility on congestion and public transit
- Increased travel-demand modeling skills using Cube software

### **Geospatial Software Development**

- Developed fully functioning web application to calculate the ideal route for a new bike trail between two user-selected endpoints given user-selected parameters