

## **Joseph Desire Muhirwa, EIT**

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### **Relevant Skills**

- Well-informed with different technical aspects of construction such as project supervision, construction quality control, quantity take-off, production and cost analysis, planning and scheduling of construction work.
- Work experience with one of the top five transportation contractors in Texas per 2017 ENR ranking.
- Equipped with relevant computer tools such as Bluebeam, AutoCAD, and Civil 3D.
- Other Computer skills: Microsoft Project, Microsoft Excel, Microsoft Word, Microsoft PowerPoint.
- Good at communication, organization, and teamwork.
- Fluent in English.

### **Education**

#### **Masters of Science Degree in Civil Engineering**

Texas A&M University

College Station, TX

December 18, 2015

- Final GPA: 3.94 out of 4.00
- Completed courses: Advanced EPC Project Development, Computer Integrated Construction Engineering Systems, Street & Highway Design, Structural Design of Pavement, Foundation Engineering, Slope Stability & Retaining Walls, Physical & Engineering Properties of Soil, and Geotechnical Site Investigation.

#### **Bachelor of Science Degree in Civil Engineering**

California Baptist University

Riverside, CA

May 4, 2013

- Final GPA: 3.81 out of 4.00
- Core related courses: Project & Construction Management, Transportation I, Advanced Transportation, Pavement Analysis and Design, Engineering visualization (AutoCAD& MS Excel), Soil Mechanics, Soil & Foundation Engineering, Strength of materials, Materials Engineering, Surveying, Structural Design I, Structural design II, Structural Dynamics and Earthquake Engineering, Hydrology, Water Resources, Environmental Engineering I, and Environmental Engineering II.

### **Relevant Experience**

#### **Field Engineer**

Webber Construction, LLC

Houston, TX

July 1, 2016 – March 2, 2018

- Worked on Beltway 8 Widening Project valued at \$ 29 millions -Between Imperial Valley Dr. and JFK Blvd.
- Revised and coded timesheets, created daily labor production and cost analysis reports.
- Created weekly labor production and cost analysis reports or flash reports.
- Created weekly equipment cost analysis reports or blast reports.
- Created and maintained required project RFIs and submittals.
- Tracked daily, weekly and monthly installed quantities or production.
- Tracked the equipment usage and allocated equipment charges to various cost codes.
- Created pay item paysheets and backup for installed quantities and submitted them to the client for payment.
- Ordered all needed materials, rented/off-rented all equipment for bridge structure crews and heavy civil crews.
- Assisted the bridge structure superintendent supervising the construction of a 20-span bridge and a 6-span bridge.
- Performed material take-offs and inventoried ordered materials.
- Developed work plans for the major tasks carried out by our heavy civil and bridge structure crews.
- Assisted the senior project engineer in preparing monthly cost reports.
- Prepared daily look ahead schedules, supplied plans and shop drawings to our crews and subcontractors.

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## Field Engineer

Webber Construction, LLC

Galveston, TX

January 10, 2016- June 30, 2016

- Worked on Cruise Terminal 2 expansion project valued at \$11 millions.
- Created and maintained all required project RFIs and submittals.
- Prepared daily, weekly, and monthly look ahead schedules.
- Assisted the senior project engineer in preparing the P6 schedule for the project.
- Performed material take-offs and ordered all required project materials.
- Supervised all self-performed work, ensured that construction works are carried out per plans and specifications.
- Managed the subcontractors and our crews.
- Revised and coded timesheets.
- Rented/off rented equipment, and tracked equipment usage.

## Summer Intern

Webber Construction, LLC

Houston, TX

May 18, 2015-August 28, 2015

- Worked on US 290 Highway/ Beltway 8 interchange project valued at \$170 millions.
- Performed material take-offs and measured installed quantities on the field.
- Prepared daily and 4-week look ahead schedules
- Prepared work plans based required production rate to meet the budget.
- Assisted project engineers in preparing flash reports and blast reports based on labor and equipment production.
- Prepared quantity paysheets, yield logs, claim logs, request for information (RFIs) and submittals
- Learned how the P6 schedule or the project critical path is updated based on project's progress
- Prepared monthly deviation report based on internally claimed quantity and the client's reported quantities.
- Assisted project engineers in preparing monthly cost report
- Learned how the project budget is revised or updated based on installed and pending quantities.

### Additional Work Experiences

## Geotechnical Lab Teaching Assistant

Texas A&M University

College Station, Texas

September 1, 2014- December 18, 2015

- Discussed and demonstrated the materials and lab tests to be conducted, and answer different questions.
- Lab tests include: Gradation test, Atterberg limits test, Standard Proctor Compaction test, Hydraulic conductivity test, 1D and 2D consolidation tests, direct shear test, all triaxial tests, Pressuremeter test, and Plate test.

### Academic Projects

**UNOTech Pedestrian Bridge design** (Senior Capstone project)

September 2012-May2013

- Designed the bridge deck using AASHTO LRFD specifications
- Designed the bridge foundation using ACI specifications

**Pacific Southwest Conference (PSWC)** (ASCE-Students Chapter)

Spring 2011

- Helped to design and build a concrete canoe for PSWC competition
- Designed and built concrete bowling balls and concrete disks for PSWC competition

### Academic Honors, Affiliations and Certificates

- EIT Certificate May 16, 2013
- Member of Alpha Chi-California Beta Chapter November,2012-present
- Member of American Society of Civil Engineers or ASCE September, 2010-present

### Volunteer Experience

- Volunteer for Keep Riverside Clean and Beautiful Riverside, CA 2010 through 2013
- Assisted in the construction of Chemawa Middle School playground Riverside, CA Spring 2010

### References Available Upon Request