

Tate Fairbanks

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EXPERIENCE

WILSON & COMPANY, PE 2017 – 2018

- Civil/Bridge engineer working on \$250 Mill design build project for UDOT. Project included replacing 6 bridges over I-15 through Lehi City as part of the Tech Corridor project.
- Work included final design of two span bridge, plan production, shop drawing review and RFI responses.

WOOD GROUP (FORMERLY AMEC FOSTER WHEELER), EIT June 2013 – June 2017

- Staff engineer working on bridge, concrete box culvert, wall and roadway design for \$100K to \$1Mill DOT projects.
- Work included structure inspection, alternatives analysis, structure selection reports, sub-consultant report review, cross-disciplinary coordination, preliminary design, final design, plan production, cost estimates, specifications, shop drawing review and RFI responses.

COLORADO DEPARTMENT OF TRANSPORTATION – BRIDGE ENTERPRISE, EIT Summer 2012

- Assist team with project management of CM/GC and DBB bridge projects
- Estimating bid totals and quantities
- Plan review for 30%, 60% and 90% phase of design

KUMAR & ASSOCIATES (FORMERLY HP GEOTECH), Lab Technician Summer 2011

- Soil classification testing including, compaction, gradation and Atterberg limits as well as material strength testing
- Infield concrete testing including, slump, percent air and density
- Drilling assistant to obtain site soil profile

PROJECTS

EAST LAKE CREEK BRIDGE REPLACEMENT

- Replaced a functionally obsolete 2-lane crossing over East Lake Creek near Edwards. Designed structure consisted of a 43 foot wide by 100 foot single span bulb tee girder superstructure using elastomeric bearing pads on a fully integral abutments with H-piles.

GRAND AVENUE PEDESTRIAN BRIDGE REPLACEMENT

- Design of a 16 foot by 600 foot 5 span steel box girder superstructure on caissons and micropiles spanning over frontage road, UPRR, the Colorado River, I-70 and commercial developments. Project included elevator tower, stair case, landing structure, utility vaults, retaining walls and coordination with CM/GC team.

27TH STREET BRIDGE REPLACEMENT

- Replaced a structurally deficient and functionally obsolete 2-lane crossing over the Roaring Fork River in Glenwood Springs using bridge slide construction. Designed structure consisted of a 33 wide by 190 foot single span plate girder superstructure on stub abutments with micropiles.

EDUCATION

University of Colorado, M.S. in Civil Engineering, Structural May 2013

University of Colorado, B.S. in Architectural Engineering, Structural December 2011

SOFTWARE

AutoCAD, MicroStation, L-Pile, Sap2000, Larsa 4D, Conspan, Microsoft Office Applications (Word/Excel/PowerPoint)

REGISTRATION

Professional Engineer, Colorado, PE.0053434

2017