



#### **EDUCATION**

Bachelor of Science, Civil Engineering,  
University of Florida, 1993

#### **REGISTRATIONS**

Professional Engineer, 56861, FL

#### **ADDITIONAL COURSEWORK/TRAINING**

Bridge Design  
University of Central Florida, 1996

Advanced Steel Design  
University of Central Florida, 1996

Masonry Lintel and Wall Design  
University of Florida, 2001

FDOT Load Rating Seminar  
November 2005

FDOT Design Conference  
August 2006

Advanced Florida Building Code  
January 2007

FDEP Stormwater Erosion and Sediment Control  
June 2007

FODT Advanced Traffic Work Zone  
July 2012

#### **COMPUTER/SOFTWARE SKILLS**

STAAD Pro, STAAD etc., RCPier, CONSPAN, FlaPier, Merlin-Dash, Descus I, Descus II, ATLAS, MathCad, Exel/Lotus/Quattro Pro, MsWord, GEOPAK, FB-Pier, and Microstation

#### **PROFESSIONAL AFFILIATIONS**

Florida Engineering Society

American Society of Civil Engineers, Structural Board - East Central Branch, Orlando Florida

#### **PROFESSIONAL RECOGNITION**

Young Engineer of the Year 2005, Nominee E-Week

#### **EXPERIENCE PROFILE**

Nimesh Bhavsar is a Project Manager with over 23 years of experience, specializing in design and analysis of structures. Expertise include: design, detailing and analysis of concrete and steel bridges, mast arm/sign structures, retaining walls, strain pole design, and reinforced concrete box culverts. I have also established experience with conducting structural inspections and design/construction of bridges. Examples of design and inspection work include: overhead sign structures for FDOT District 1, 2, 7, 3 and 4, water control structures, water tank, and bridges. My experience has involved geometric design using GEOPAK, and production for sections and details of all components of a structure.

#### **REPRESENTATIVE PROJECT EXPERIENCE OM Engineering Services, Inc. (2005-Current)**

##### **SR 100 from CR 315 to Holloway Road, Design/Build Trail Project FDOT District 1, Palatka, FL, Project Manager**

Responsible for the design and layout of 4.2 miles of a new all-purpose trail. The trail is 12-ft wide asphalt trail utilizing the existing CSX corridor. The trail also included 2 pedestrian bridges over creeks. The bridge spans were 75-ft and 50-ft.

##### **South Lake Trail, Sub-Consultant to Commercial Industrial Corp.**

Responsible for the design the foundation for a CONTECH bridge placed for a South lake Trail Phase III project in Lake County. Based on the preliminary information provided by the Client (CIC) the proposed Bridge span can be as long as 120 ft. in clear span. Bridge Reaction and Loads will be provided. Realignment of Trail Design, also the Embankment of the bridge with possible wall design.

##### **SR 417 / Florida's Turnpike Interchange Ramp B1 over Town Center Blvd Orlando Orange County Expressway Authority (OOCEA), Orlando, FL, Project Manager**

Responsible for the new ramp bridge for the turnpike interchange. The new 147-ft single span, 60" FIB pre-stressed beams bridge was designed according to FDOT Structures Design Manual and AASHTO LRFD Specifications.

##### **43<sup>rd</sup> Ave Bridge Replacement over Relief Canal, Florida Department of Transportation (FDOT) District 1, Okeechobee, FL, Project Manager**

A new bridge was designed to replace the deficient and obsolete bridge over the Taylor Creek relief canal. The new 47-ft single span, 45-ft wide pre-stressed slab bridge was designed according to FDOT Structures Design Manual and AASHTO LRFD Specifications. The design accommodates two-phase construction in order to maintain at least one lane open to traffic during construction

##### **Whitaker Rd, FDOT District 5, Load Rating Analysis, Project Manager**

Responsible for Load Rating Analysis of a pre-stressed concrete beam bridge on Whitaker Rd spanning Lighter Snag Creek using FDOT LRFD Pre-Stressed Beam program and CONSPAN as a sub-consultant to Michael Baker Jr, Inc.

##### **Dunn Avenue Extension over I-95, Hubbard Construction Project Manager**

Volusia County project including Maintenance of Traffic (MOT) plans, Maintenance of Traffic plans for bridge construction over I-95, and Temporary Signing & Pavement Marking, all plans for the construction of Dunn Avenue Extension for the extension over I-95.

**Load Ratings – Districtwide D1, Project Manager**

Sub-Consultant to KCA, Load Rating for over 25 various types of bridges ranging from Complex Steel Truss to Timber existing bridges.

**BP407 MSE Wall Design, GOAA, Hubbard Construction Co.**

OME served the BP407 project as subcontractors to Hubbard Construction at Orlando International Airport. We were responsible for the design of an MSE Wall for the roadway widening of Loop Road A, Ramp AA. As well as the analysis and design of existing and new sign structures at the airport.

**Enplane Drive Modifications, GOAA, AVCON**

OME served the Enplane Drive project as subcontractors to AVCON, Inc. at Orlando International Airport. Our responsibilities included the structural analysis and evaluation of Enplane Dr., the structural evaluation of the bridge on Enplane Drive, and the QC of the final modification plans to the roadway/bridge.

**Soil Nail Wall Design for Abutments of SR429 Bridge over FCRR, Orlando- Orange County Expressway Authority (OOCEA) - Emerald Construction, Apopka, FL**

Rehabilitation and strengthening of existing MSE walls were designed by a soil nail application with over 90 soil nails with embedment depths varying from 10-ft to 30-ft. A special wooden loading frame was designed for conducting the soil nail full strength load tests without damaging the MSE wall panels. This is the first soil nail application for strengthening of MSE walls in the State of Florida.

**Wetherbee Road and Landstar Road Intersection, Hubbard Construction, Orange County**

Minor Pavement Design, Maintenance of Traffic, Temporary and Permanent Signing & Pavement Marking plans for 1.7 mile roadway realignment and paving project for Hubbard Construction. Intersection of Wetherbee Road and Landstar

Road. Bridge sub-structure analysis of the interior bents. Bridge Superstructure

Analysis. The project included three phases of Maintenance of Traffic and two

Detours.

**PARSONS CORPORATION**

**Senior Structural Engineer (1997-2007)**

**Maitland Boulevard Extension from Hiwassee Rd to US 441-Maitland, Florida; Orange County Expressway Authority, Structural Project Engineer**

Maitland Boulevard Extension project is the third of seven most critical highway projects in the future of Western Orange County. Extension of SR 414 from Hiwassee Road to US 441, including more than 2,800-ft. of new eight-lane bridge structures (viaduct). The viaduct has a reverse curve with superelevation transitions. Also complex substructures including several different CIP straddlebents at the CSX Spur 2 overpass location. The SR 414 over SR 441 Bridge is a 200-ft steel girder bridge design. Responsibilities involved layout and design of three bridge structures, MSE walls, and miscellaneous structures.

**Turnpike Mainline Widening, Orange County, Florida; Florida's Turnpike Enterprise, Structural Engineer**

Final design of the widening of Florida's Turnpike from Interstate 4 to Beulah Road (West of SR 429) in Orange County, Florida. The project involves widening from four-lanes to eight-lanes from I-4 to SR 408, and from six -lanes to 12-lanes from SR 408 to Beulah Road. Included in the project are three (3) bridge widening's and four (4) bridge replacements. Responsibilities involved layout of bridge shoulder widening, noise wall construction, canal erosion repairs, guardrails, landscaping, and ITS installation. Responsibilities involved MSE walls, and miscellaneous structures design.

**SR 429 Western Beltway Part C Contracts 653, 653A, 654 & 654A; Orlando Orange County Expressway Authority, Project Engineer**

Final design of 10 miles of limited access expressway between Seidel and Reaves Road. The project included interchanges with CR 535, CR 545 and Seidel Road. Components included 23 bridges, frontage roads, relocated arterials, and toll plazas. Responsibilities involved layout and design of 20 bridges, MSE walls, sign structures, and quantities.

**Osceola Parkway & Interstate 4 Interchange; Reedy Creek Improvement District and Florida Department of Transportation, District Five, Project Engineer**

Responsibilities included the layout and design of seven highway bridges, MSE wall control layout, overhead sign structures, bridge-mounted signs, and two tie- back walls.