

## **MASOOD MIRZA P.E., P.T.O.E.**

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### **SUMMARY**

Project Manager with more than 15 years of experience in the transportation-engineering field including transportation planning and traffic engineering. Experience in transportation planning includes transportation system planning, planning of transit, bicycle and pedestrian facilities and travel demand forecasting. Experience in traffic engineering includes transportation engineering analyses, the supervision and production of signal timing plans, traffic operations and traffic impact, access and parking studies, macro and micro simulation traffic modeling, and the preparation of traffic signal, signing and marking, and traffic control plans.

### **EDUCATION**

Currently pursuing PhD (Civil Engineering)

University of Central Florida

Expected Graduation Date: December 2010

MS, Civil Engineering

Arizona State University

BS, Civil Engineering

N.E.D. University of Engineering & Technology

Karachi, Pakistan

### **REGISTRATION**

Florida P.E. # 59912

Washington P.E., # 30286

PTOE, # 1596

### **EXPERIENCE**

September 2008 to  
October, 2009

**Ghyabi & Associates, Inc.**

Orlando, FL.

Senior Traffic Engineer

- Developed traffic (AADTs and DDHVs) for the I-295 (67 miles) for the I-295 Master plan study. Also managed and conducted traffic analysis for the all the freeway components and for the local arterials.
- Managed the validation process for the NCHRP 3-70 (Multimodal level of service models) for the FDOT.
- Managed K100 variation studies for the FDOT District 5.
- Managed and developed traffic impact studies for comprehensive plan amendments, concurrency management and parking studies for commercial and residential developers in Orange, Polk, Volusia and Seminole Counties

March 2007 to  
August 2008

**MSCW, Inc.**  
Senior Project Manager

Orlando, FL.

- Managed and developed traffic impact studies for Comprehensive Plan Amendment, concurrency management and parking studies for commercial and residential developers in Orange, Polk, Volusia and Seminole Counties.
- Managed traffic counts and field data collection programs.
- Developed proposals, cost estimates, and negotiated contracts with private clients.

July 2003 to  
March 2007

**URS Corporation**  
Senior Transportation Engineer

Ocoee, FL.

As Project Traffic Manager at the Florida's Turnpike Headquarters, responsible for developing traffic reports, coordination with client and sub consultants, develop and implement project management plans and schedules, responsible for implementing quality control and assurance procedures. Worked on the following projects:

- **Traffic Technical Memorandums, Design Traffic Reports, Project Traffic Memorandum**
  - SR 50/Turnpike interchange: City of Ocoee, Orange County
  - Sunrise Boulevard/ Sawgrass interchange: City of Sunrise, Broward County
  - SW 8th Street/ Homestead extension of Florida's Turnpike (HEFT) interchange improvements: City of Miami, Miami-Dade County
  - Polk Parkway Widening: Polk County
- **Interchange Justification Reports (IJR)**
  - Stirling Road/Turnpike interchange, Broward County
  - SW 8th Street/ Homestead extension of Florida's Turnpike (HEFT) interchange improvements: City of Miami, Miami-Dade County
- **Methodology Letter of Understanding (MLOU)**
  - I-75/Turnpike interchange: Sumter County
  - CR 468/Turnpike interchange: Sumter County
  - Stirling Road/Turnpike interchange: Broward County
  - Pace Road/ Polk Parkway interchange: Polk County

June 2001 to  
July 2003

**PBS&J**  
Senior Transportation Engineer

Miami, FL.

- Managed and designed traffic signals in the Counties of Miami-Dade, Broward, Palm Beach and Martin.
- Managed and developed traffic safety and access management studies for Florida Department of Transportation.
- Managed and developed traffic impact studies for commercial and residential developers and for school districts in Miami-Dade, Broward and Martin Counties.
- Developed traffic operational models for San Juan, Puerto Rico, City of Fort Lauderdale, City of Boca Raton and City of Pembroke Pines.
- Managed traffic counts and field data collection programs.
- Developed proposals, cost estimates, and negotiated contracts with private clients.

September 1995 to  
May 2001

**City of Springfield**  
Transportation Planning Engineer

Springfield, OR.

- Perform transportation system planning activities for the City, including interagency communications and public involvement.
- Review and analyze data from the regional transportation system models and other sources, prepares technical reports for City and public officials.
- Represent public works department and the City in regional transportation planning efforts to coordinate project planning, development and funding activities.
- Present transportation plans and projects to the City Council, commissions and citizen groups.
- Review land development applications for compliance with City codes and policies, and prepares recommendations for conditions of approval.
- Represent the City in regional TDM committee.
- Involve in the development of bicycle system planning.
- Coordinate and direct engineering consulting firms on assigned projects and studies.
- Reviewed land use applications for the compliance with the City codes and policies.
- Represented the City in regional transportation planning efforts to coordinate project planning, development and funding activities.
- Represented the City in the regional long-range planning efforts including developing regional transportation model and regional Bus Rapid Transit (BRT) system.

October 1991 to  
March 1995

**Transportation Planning & Engineering Inc.** Bellevue, WA.  
Transportation Engineer/Project Manager

- Developed transportation system plans and traffic impact studies for public and private agencies.
- Developed traffic circulation, parking and walk route studies.
- Conducted travel demand and forecasting models.
- Developed traffic signal coordination plans.
- Prepared feasibility and preliminary plans for park & ride facilities.
- Managed trip generation, Pass-by, O&D surveys.
- Assisted in the design of traffic signal, ITS systems, HOV facilities and street lighting projects.

September 1990 to  
September 1991

**Rick Engineering Company** Phoenix, AZ.  
Traffic Design Engineer

- Performed analysis and design of traffic signals, at grade traffic intersections and multi-use parking lots.
- Assisted in design of rural and urban highways.
- Developed signing and stripping plan for city streets, highways and freeways.
- Developed traffic signal coordination plans.
- Developed cost estimates, specifications and schedules for highway projects.
- Managed and conducted traffic data collection surveys.

May 1989 to  
August 1990

**ATL Testing Laboratories** Phoenix, AZ.  
Material Engineer

- Managed and supervised material testing laboratory.
- Developed and carried out quality control plans for construction materials.
- Developed pavement and mix designs for freeways and airports.
- Conducted concrete plant inspections.

Work experience prior to this date will be provided upon request

#### **SOFTWARE PROFICIENCIES**

- Proficient with transportation engineering software including SYNCHRO, CORSIM, HCS, TRANSYT 7F, TMODEL2, Signal 94 (TEAPAC), NCAP, PASSER II-90

#### **AFFILIATIONS**

- Fellow of Institute of Transportation Engineers