



**QUALIFICATIONS**

**SUMMARY:**

Ms. Gómez has over 17 years of professional engineering experience in the transportation field, in both traffic operations and research areas. Since joining Transport Analysis Professionals, she has been involved in Traffic Accident Reconstruction.

**EDUCATION  
AND TRAINING:**

M.S. in Civil Engineering, Florida International University, Miami, FL, December 2001.

B.S. in Civil Engineering, Florida International University, Miami, FL, August 1995, *Magna Cum Laude*.

- Traffic Accident Reconstruction, University of North Florida, IPTM, August 1999.
- EDC Reconstruction, Engineering Dynamics Corp, University of Miami, November 2000.
- PC-Crash and PC-RECT Training Workshop, Detroit, MI, March 8-9, 2001.
- Inspection and Investigation of Commercial Motor Vehicle, University of North Florida, IPTM, May 23-27, 2005.
- Vehicle Accident Reconstruction Methods, SAE International, Troy, MI, August 20-24, 2007.
- Vehicle Accident Reconstruction Methods, Brach Engineering, South Bend, IN, December 2007. Private workshop with Dr. M. Raymond Brach and Dr. R. Matthew Brach.
- Crash Data Retrieval Data Technician/Crash Data Retrieval Analyst, Collision Safety Institute, Chantilly, VA, January 2008.
- ARC-CSI Crash Conference, Las Vegas, NV, June 2008.
- ARC-CSI Crash Conference, Las Vegas, NV, June 24-27, 2010
- Crash Data Retrieval System-Data Analyst, Northwestern University Center for Public Safety, Evanston IL, July 11-15, 2011
- Applying Automotive EDR Data to Traffic Crash Reconstruction, SAE International, Troy, MI, October 29-31, 2012
- Applying Automotive EDR Data to Traffic Crash Reconstruction, SAE International, Troy, MI, September 4-6, 2013
- Reconstructing a Crash Utilizing Human Factors Research, Northwestern University Center for Public Safety, Evanston IL, May 19-23, 2014

**REGISTRATION:**

Professional Engineer, State of Florida - 2004.

**PROFESSIONAL  
EXPERIENCE:**

Ms. Gómez joined Transport Analysis Professionals in August of 1998 as an Associate. She is involved in Traffic Accident Reconstruction, including site and vehicle inspections and measurements, AutoCAD drawings, and analysis of data to produce time-distance relationships, energy transformation evaluations, and momentum assessments. She researches vehicle safety equipment requirements and availability.

Ms. Gómez was a Graduate Research Assistant for the College of Engineering at Florida International University. She gathered statistical quantitative data on mass

transit systems and intermodal systems planning, performed interviews with various Transit Agencies, prepared reports on intermodal guideway transit systems, conducted preliminary research, collected and analyzed bid documents from transit agencies regarding Automatic Vehicle Location implementation, and prepared reports.

Before joining Transport Analysis Professionals, Ms. Gómez worked as an Assistant Engineer for a Miami-based Transportation Engineering firm. She participated in the development of the I-10 Master Plan in Leon County, FL, and was responsible for existing and future Level of Service analysis on the mainline, arterials, and ramps as well as Highway Capacity Software (HCS) analysis of ramp junctions and intersections in coordination with the prime consultant. She developed turning movement volumes and peak hour volumes from model output. She also assisted in preparing the Traffic Technical Memorandum. The project included assessing travel demand in the corridor for existing and future conditions for the various tiers and alternatives and recommending improvements for deficient areas within the corridor.

Ms. Gómez participated in the SR 836 project in Miami, developed worksheets for converting model volumes into AM and PM peak hour volumes, prepared graphics using MicroStation and AutoCad, and prepared the methodology report for development of Design Hour Volumes.

Ms. Gómez participated as the only assistant engineer in the development of the Superarterial Network for Miami, FL. During the course of this project, she conducted research and prepared reports on criteria, definition, application, cost, and design standards for the superarterial concept nationwide and locally.

Ms. Gómez was also employed as a Project Engineer at another Miami-based Transportation Engineering firm. She performed traffic analysis using Highway Capacity Software and Highway Capacity Manual, made improvement recommendations based on analysis performed, wrote reports, and prepared graphics using MicroStation. She was also responsible for Data Collection for numerous projects, including Roadway Characteristics Inventory, Railroad Highway Characteristics Inventory, and Bus Counts for the Florida Department of Transportation. She was in charge of a team of 5 assistants.

**PROFESSIONAL  
AFFILIATIONS:**

Former president and founding member, Chi Epsilon (Civil Engineering Honor Society), Florida International University Chapter, January 1993.  
American Society of Civil Engineers  
Society of Automotive Engineers

**PUBLISHED WORK:**

*Benefits of Transit AVL and Transit AVL Implementation in the US.* Transportation Research Board, 1998.  
*AVL Role in ITS and AVL Planning in Public Transit Agencies.* Proceedings of the ASCE South Florida Section, 1997.  
*GIS/Transportation Modeling/Air Quality: Positioning PB to Meet the Challenge.* 1997 Parsons Brinckerhoff Technical Exchange Seminar, December 1997.  
*Automatic Vehicle Location System for Public Transit - Present and Future.* Proceedings of the ASCE South Florida Section, Sept. 27, 1996.