

# Mario Fiorillo, SI

Senior Traffic Engineer and Traffic Signal Inspector  
Senior Project Manager  
Home (772) 221-7971, Cell (772) 924-6993

## SUMMARY OF QUALIFICATIONS

Mario Fiorillo has over 25 years of diverse experience in the areas of Traffic Signal Design and Traffic Operations, with particular skills in the detailed analysis of traffic operations. He has been involved in the design of both isolated and network signal projects, and has directed a number of Traffic Impact and Parking Studies, Signal Warrant, developed conceptual, preliminary and final Traffic Signal Plans, Signing, Striping and Maintenance of Protection of Traffic "Work Zone" for a wide variety of private developers and public agencies. His experience includes the use of numerous Transportation software such as PASSER, TRANSYT7F, TRAF-NETSIM, SYNCHRO plus SimTRAFFIC, CORSIM, SOAP, CINEMA, HCS, and others. Mr. Fiorillo has developed numerous Civil and Transportation Engineering software, for use in-house and in the field. He has also developed numerous project and companies web site.

## PROJECT EXPERIENCE

### **Midway Road Study, from 25<sup>th</sup> Street to Turnpike St. Lucie, Florida.**

Prepared Traffic Signal Plans for three intersections (Jenkins Rd., Selvitz Rd., and 25<sup>TH</sup> Street) along Midway Road (CR 712). Duties included existing signal inventory and Synchro analysis of this corridor between FTPK overpass and 25<sup>TH</sup> Street. During this analysis storage length from the main road into unsignalized intersections were estimated and design, duties included the inventory of existing conditions, developing phasing, timing, electrical wiring diagram signalization layouts, details etc using Microstation. The signalization Plans included: Key Sheet, Tabulation of Quantities, General notes, Signalization Plan for the above three intersections, Guide Sign Sheet, and Mast Tabulation.

### **03W Elementary School (Palm Beach County)**

Prepared Traffic Impact Study for a new elementary School in Palm Beach County.

### **City of Homestead Traffic Consultant, Homestead, Florida.**

Developed computer software (Excel) to manage the City Concurrency Management System within the City limits. Serve as part of the technical team reviewing traffic studies, and the City concurrency management system roadway network; provide committed development traffic to consultants preparing Traffic Impact Studies within the City limit.

### **Walton Road - 4 Lanes Improvements City of Port St. Lucie, Florida.**

Prepared Signal and Electrical Design for two intersections along Walton Rod. Duties included the inventory and Synchro analysis of this corridor between Village Green Drive and Lennard Road. During this analysis storage length from the main road into unsignalized intersections were estimated and design, duties included the inventory of existing conditions, developing phasing, timing, electrical wiring diagram signalization layouts, details etc using AutoCAD.

### **Old Hammock Road/Isla Verde of Wellington, Wellington, Florida.**

Prepared Signalization Plan for main access driveway to this proposed development with State Road 7 (U.S. 441), meet with FDOT and Palm Beach County, duties included the inventory of existing conditions, developed traffic signal phasing, signal timing, electrical wiring diagram layouts, field survey with FPL to obtain future power source, etc.

### **City of Fort Pierce, Florida.**

Developed computer software (Excel) to manage the City Concurrency Management System within the City limits. The proposed new turning movement site traffic for a proposed development is enter on individual spread sheet, this site traffic is added to the existing traffic plus background growth. Capacity of the links or the sum of NB (EB) and SB (WB) are analyzed during the P.M. Peak Hour. Bi-directional link capacity analysis of the existing Traffic Volumes is perform thru-ought the network. The contributing percentage of each

## EDUCATION

Bachelor of Architecture,  
Atlantic University, 1972

Northwestern University,  
Evanston, Illinois

Computer Processing  
Institute, Bridgeport,  
Connecticut

Polytechnic Institute of New  
York

Georgia Institute of  
Technology

International Municipal  
Signal Association

## PROFESSIONAL ASSOCIATIONS

International Municipal  
Signal Association

ITE Institute of  
Transportation Engineer

## CERTIFICATIONS

Work zone certification

Traffic signal certification  
program

Traffic signal inspection  
certification

individual approved project to each of the links is also calculated and it will be use for future mitigation. The existing traffic volume can also be updated via spreadsheet. A total of 13 major corridors were developed with 42 nodes and approximately 62 links for this network.

**City of Pahoee Florida.**

Developed computer software (Excel) to manage the City Concurrency Management System within the City limits. The proposed new turning movement site traffic for a proposed development is enter on individual spread sheet, this site traffic is added to the existing traffic plus background growth. Capacity of the links or the sum of NB (EB) and SB (WB) are analyzed during the P.M. Peak Hour. Bi-directional link capacity analysis of the existing Traffic Volumes is perform thru-ought the network. The contributing percentage of each individual approved project to each of the links is also calculated and it will be use for future mitigation. The existing traffic volume can also be updated via spreadsheet.

**Transportation Planner Consultant to the City of West Palm Beach, Florida.**

Transportation Planner to the City of West Palm Beach works at City Hall helping the Planning Department on Traffic and Transportation issues. From preparing and reviewing Traffic Impact Studies, parking layout, internal circulation, provide recommendation to the City Planning Department before current applications are approve.

**Tri-Rail Double Track Corridor Improvement Program, South Florida.**

Tri-Rail Double Track Corridor Improvement Program, Segment 5 Project that will allow the South Florida Regional Transportation Authority/ Tri-Rail to expand commuter rail service to relieve South Florida's congested highways while providing improved connectivity. Once completed, the Segment 5 Project will allow SFRTA/Tri-Rail to run trains every 20 minutes during peak hours. This work includes the review of existing safety conditions at 32 major crossing between Palm Beach, Broward and Dade County and the modification and expansion of signal. For this study, existing traffic data and observation of exiting queues at these locations were observed and a simulation of the existing condition was developed using SimTraffic to duplicate the field observation. This file was then modified on the basis of future traffic projections and new train schedules to simulate future condition and analyses possible queues between major intersections and railroad crossings.

**Truck Route Management and Community Impact Reduction, New York (NYCDOT).**

Sub consultant to Edwards and Kelcey. The goal and objectives of this project include coordinating engineering, educational, informational and enforcement efforts so that trucks remain on designated truck routes until reaching the intersection nearest their destinations, and do not inappropriately utilize residential streets. Performed the following tasks on this project. Review existing traffic volume data: 1) At major street and arterials, 2) Truck route sign inventory, 3) Street geometric at problem locations within the study area, 4) Examine existing truck routes throughout of the five Boroughs in New York and make recommendations to improve safety, efficiency, and promote time savings in truck operation while reducing pollution levels, 5) Identify and examine concerns of truck operators and make recommendations, 6) Examine feasibility, of removing trucks from inappropriate streets and routing to arterial streets and highways suitable for truck traffic, 7) Attend public meetings in all Five Boroughs throughout the life of the project. These meetings provide community members, business groups an additional forum by which they can participate in the project. These meetings served to introduce the project, present the results of our initial community survey, and begin to work with communities on highlighting the issues and concerns affecting their neighborhoods. Developed power point presentations to outline existing problems and provide recommendation to the problems. This presentation included still pictures, links to stream video of the area in question, and graphic representation of possible solutions, this was achieved by superimposing the improvements to still picture of the problem location.

**New Paltz Buildings, New Paltz, NY (DEC).**

Redesign existing parking lot layout base on a new site configuration and propose grade. Responsible for storm-water management design in conformance with the new guidelines by the DEC Design Manual. Evaluated all the acceptable storm water management practices such as ponds, wetlands, infiltration, filtering systems & channel systems. The following software were used HydroCAD and TR-55, to perform the Hydrologic Analysis and develop the bio-retention basins for this project.

**REFERENCE:**

Lorenzo Aghemo - Palm Beach County, Florida - Planning Director  
Brian Collins – City of West Palm Beach, Florida – City Traffic Engineer  
Vinod L. Sandanasamy – Palm Beach County MPO, Florida – Senior Transportation Planner