



**JOSEPH M. FIOCCO, P.E., PTOE**  
36 Trevoise Road  
Trevoise, PA 19053  
215-355-2089  
[Joe@FioccoEngineering.com](mailto:Joe@FioccoEngineering.com)

### **EDUCATION**

Bachelor of Science in Engineering, Temple University - 1986

### **REGISTRATIONS**

Professional Engineer in Pennsylvania, New Jersey, and Delaware

### **CERTIFICATIONS**

Professional Traffic Operations Engineer  
Traffic Collision Reconstruction

### **AFFILIATIONS**

Member, American Society of Highway Engineers (ASHE),  
President of Southern New Jersey Section 2011-2012

Member, Institute of Transportation Engineers (ITE),  
Transportation Safety Counsel and Expert Witness Counsel, MASITE Technical Committee Chair

Developed, prepared, and delivered presentations on the topics of highway safety and accident prevention at various ITE and ASHE functions.

### **EXPERIENCE**

#### **SAFE Highway Engineering, LLC**

**January 2016 to Present**

Principal of engineering firm specializing in highway safety and traffic engineering. Manages projects that evaluate and develop crash reduction strategies for highway projects, the development of traffic control plans, traffic impact studies, traffic signal designs, and bulk highway curve speed analysis. Current and past SAFE Highway Engineering / Fiocco Engineering clients include PennDOT, The Pennsylvania Turnpike Commission, Commonwealth of Pennsylvania, State of New Jersey, Lower Providence Township, Lower Southampton Township, Lower Makefield Township, Warminster Township, Lower Macungie Township, East Pikeland Township, Scenic Philadelphia, Philadelphia Union Soccer Team, Second Cape May Baptist Church, Assumption BVM Catholic Church, Lane Montessori School, Spring Valley Community Church and numerous other private sector clients.

#### **Fiocco Engineering, LLC**

**December 2010 to Present**

Provides expert witness services for state and local road agencies, professional engineering firms and plaintiffs in the field of highway design, highway safety, traffic engineering, accident investigation and reconstruction and motorcycle safety.

#### **PennDOT Motorcycle Safety Program**

**April 2007 to October 2013**

Provided classroom and range education to novice and experienced motorcycle students as a certified RiderCoach. The Motorcycle Safety Foundation's program was utilized to provide interactive classroom activities that covered preparing for the ride and street strategies. Range exercises were utilized to develop basic motorcycle maneuvering skills.

#### **McMahon Associates, Inc.**

**November 2004 to November 2010**

##### **Senior Project Manager**

Provided engineering consultation to both private and public sector clients relative to highway safety and traffic engineering issues and supervised staff engineers and technicians in the conduct of various studies. Projects included road safety audits, traffic impact studies, traffic safety studies, traffic circulation designs, and parking accumulation studies. Provided traffic engineering services to the Pennsylvania Department of Transportation, New Hanover Township, Upper Hanover Township, Douglas Township, Upper Pottsgrove Township, West Pottsgrove Township, Pottstown Borough, Upper Moreland Township and many private sector clients. Provided expert witness services, including trial testimony, relative to design, construction, maintenance, and other highway safety issues.

#### **Orth-Rodgers & Associates, Inc.**

**October 2000 to November 2004**

##### **Project Engineer**

Worked on projects ranging from traffic signal design, corridor studies, traffic impact studies and safety improvement projects to traffic operation studies for state, county, and local governments, as well as private sector clients. Assignments included evaluating the need for engineering services, deciding what background data was necessary, coordinating the gathering of data, evaluation, and report preparation. Results were typically presented in a formal report and/or presented at a public or government meeting. Represented the Monmouth County Engineering Department in the area of traffic engineering and highway safety under an on-call



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professional traffic engineering services contract. Created and managed all stages of a pilot program for the South Jersey Transportation Planning Organization (SJTPO) to perform Safety Audits on two existing Cape May County highways. This project was completed on June 30, 2004, and the success of this project led to an annual program that increased in scope during each of the following years.

**Pennsylvania Department of Transportation**

**May 1985 to October 2000**

**District Risk Management Engineer**

Worked with the Office of Attorney General, Tort Litigation Unit as an expert consultant and witness for personal injury and property damage claims involving the Pennsylvania Department of Transportation. Work included investigation, research, literature review and analysis, deposition, and court testimony. Prepared reports in the areas of highway design, construction, maintenance, traffic and transportation engineering, as well as accident analysis and reconstruction. Testified as an expert witness in district court, in front of arbitration panels and at P.U.C. hearings regarding various highway safety issues. Established and directed a formal process of investigating traffic collision locations. Supervised the investigations of over a thousand collisions in District 6-0 (Philadelphia, Bucks, Chester, Delaware and Montgomery Counties).

Coordinated and reviewed highway design plans as the District Safety Review Committee Chairperson to ensure that the safety of the motoring public was not compromised. All proposed "design exceptions" were also reviewed by the Safety Review Committee. Projects included all major construction and reconstruction work on the Interstate and limited access highways planned in Philadelphia and surrounding Pennsylvania communities. Reviews incorporated the analysis of all modes of transportation, including proposed park and ride lots, bicycle trails, pedestrian over/underpasses, etc.

Member of the ITE Transportation Safety Counsel's subcommittee, "Implementing Safety Audits in the US", and took the lead role in conducting Safety Audits of highway design projects in PennDOT's Engineering District 6-0, including their Safety Audit Pilot Project from 1997 through 1998. Established an audit process with a team of volunteers with various design, construction, and maintenance backgrounds. The success of the pilot project led to a statewide Safety Audit program in 2000.

**District Traffic Operations Engineer**

Directed and coordinated all activities of the District's highway pavement marking, signing, and work zone traffic control programs. Managed a staff of 16 employees including engineers, traffic technicians, supervisors, foremen and paint crews. Responsibilities included the coordination and direction of all traffic sign installations and line painting on the 3900 miles of highways in the District.

Reviewed and approved, redesigned or denied all proposed detours and major work zones. The coordination of multiple work zones and/or traffic detours for projects involving the state, local municipalities, utility companies and/or contractors was done through the Traffic Operations office. Special signing was often needed for overlapping or complex detours necessary in Philadelphia and the surrounding suburbs. Created and provided training sessions on proper work zone traffic control to PennDOT District 6-0 work crews and survey crews. Also provided similar training to outside entities like PECO linemen and the Del/Chester Public Works Association.

**Civil Engineer – Traffic**

Proposed access to the State highway system was evaluated through the Highway Occupancy Permit (HOP) process. Proposed new or modified local roads or driveways were reviewed to ensure safe, reasonable access and compliance to applicable regulations. Proposed traffic signal installations or modifications to existing traffic signals were reviewed to ensure safe and efficient operation. Provided a systematic review of existing permitted traffic signals to identify and report non-compliance issues and/or required maintenance to the responsible municipalities.

Assisted in the preparation of Energy conservation, Congestion reduction and Safety (ECONS) projects. This work involved preparing crash diagrams, existing condition diagrams and remedial treatment diagrams, cost estimates, and benefit/cost analyses. Performed numerous Safety Improvement Program (SIP) studies. This involved retrieving and plotting crash data, identifying crash patterns, reviewing locations in the field, determining probable causes and subsequent remedial measures.

**OTHER CERTIFICATIONS**

Certified by the Pennsylvania Department of Education's Traffic Institute for Police Services (TIPS) in the areas of Accident Investigation – Homicide by Vehicle, Advanced Accident Investigation, Accident Reconstruction, Computer Accident Reconstruction, Investigations of Motorcycles involved in Traffic Accidents, and Human Factors. Also attended training sessions at George Washington University and Pennsylvania State University in the areas of traffic accident investigation, analysis and reconstruction.