

Francisco R. Klein, PE, PTOE, RSP
Augspurger Komm Engineering, Inc.
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EDUCATION

Goldman Sachs 10,000 Small Business Program, Babson College, Wellesley, Massachusetts, 2015
Master of Engineering, University of Puerto Rico, Mayaguez Campus, 2009
E-Business Diploma, Universidad Gabriela Mistral, Santiago, Chile, 2001
Bachelors of Science, Civil Engineering, Universidad Diego Portales, Santiago, Chile, 2001
Civil – Industrial Engineering, Diego Portales University, Santiago, Chile, 2000

EXPERIENCE

Mr. Klein is a Bilingual Civil Engineer with excellent international experience and proven accomplishments in creating designs and construction plans for roads, highways, transit systems and sites to include intersections, roadside, grading, drainage plans, and connections to local water, storm and sanitary sewer utilities. Extensive experience with deterministic and stochastic traffic models. A high energy and self-motivated team player who can work well under pressure to meet aggressive deadlines. Excellent computer skills with advanced knowledge of iWork, MS Office, MS Project, OpenRoads Designer, OpenRoads Concept Station, AutoCAD, Civil 3D, Synchro / SimTraffic, SIDRA, Vistro, Vissim, RSAP, and other computer software. His experience includes, Transportation Planning, Soil Mechanics, Traffic Engineering, Highway Signing/Marking, Traffic Control, Vehicular Accident Reconstruction and Analysis, Highway Design and Maintenance, Environmental Impact and Traffic Safety, Parking Garage Planning and Design

PROFESSIONAL REGISTRATION

Professional Engineer, District of Columbia, Civil, License # 908829
Professional Engineer, State of Arizona – Civil, License # 65411
Professional Engineer, (PE), Commonwealth of Puerto Rico, License # 20659
Professional Engineer, Commonwealth of Virginia, License # 52902
Professional Engineer, State of North Carolina, License # 050331
Professional Engineer, State of Maryland, License # 5505627
Professional Engineer, State of Texas, License # 138233
Professional Engineer, State of Florida, License # 89719
Road Safety Professional (RSP) No. 182
Road Safety Professional Infrastructure Level 2 (RSP2I), certified by TPCB, #118
Professional Traffic Operations Engineer, (PTOE), License #3671
ITE Member, No. 1030969
FAA UAS Remote Pilot, No. 4482209
VDOT Advanced Work Zone Training; VDOT Guard Rail Inspection Technician (GRIT)
OSHA 10-Hour Certification in Highway Construction Zones
OSHA 30-hour Certification in Construction

EXPERIENCE HISTORY

2015 - Augspurgen Komm Engineering, Adjunct Consultant
2007 - Klein Engineering, PSC, President
2002 - 2006 Design Group Consulting Engineers, PSC, Project Manager
2000 – 2002 Nestle Chile, Trade Marketing Specialist & Category Manager

PROFESSIONAL AFFILIATIONS

Professional College of Engineers and Land Surveyors of Puerto Rico
San Juan Chapter Board Member and Past Vice President
American Society of Civil Engineers
Institute of Transportation Engineers
National Association of Professional Accident Reconstruction Specialists

CONTINUING EDUCATION

National Highway Institute, FHWA-NHI-380070 Highway Safety Manual Practitioners Guide for Geometric Design Features, February 13-14, 2019, CIAPR, San Juan Puerto Rico
VDOT Advanced Work Zone Traffic Control Training, October 30-31, 2018, Sandston, VA
VTCA-VDOT Consultant Forum, October 2, 2018, Richmond, VA
VDOTs Transportation Management Institute (TPMI), University of Virginia, May 15-24, 2018, Charlottesville, VA
ITS, DC Section, ITE Technical Meeting at VDOT, March 27, 2018, Fairfax, VA
CIAPR, Introduction to the Highway Safety Manual, February 8-9, 2018, San Juan, Puerto Rico
CIAPR, Arecibo Chapter, Design and Analysis of Storm Sewer Systems, Arecibo, Puerto Rico, June 7-8, 2017
FHWA, Every Day Counts 4 Regional Summit, Orlando, FL, December 14-15, 2016
National Capital Region Transportation Planning Board, Fill in the Gaps: Bicycle and Pedestrian Projects Around the Region, Washington DC, December 8, 2016
VDOT, OSHA 30-Hour certification, Richmond, VA, October 17-20, 2016
FHWA-PRHTA, Diseñando para la Seguridad de los Ciclistas, CIAPR, San Juan PR, October 13, 2016
FHWA-PRHTA, Reconfiguración Geométrica de Carreteras (Road Diet), CIAPR, October 11-12, 2016
VDOT, Basic Work Zone Traffic Control Training, Richmond, VA September 13, 2016
FHWA – PRHTA, Smarter Work Zones Workshop, CIAPR, June 22, 2016
CIAPR, San Juan Chapter, 7mo Simposio de Mantenimiento de Edificos, CIPR, June 17, 2016
PR, Expo Cumbre y Mega Viernes Civil 2016, IIC, CIAPR, May 13, 2016
WDITE SimCap Lunch and Learn at DDOT, Washington, DC, April 1, 2016
Pervious Concrete Pavement: Hype and Hope, CIAPR Mayagüez, March 17, 2016
Basic Concepts of Soils and Geotechnical Engineering, CIAPR, San Juan, March 15, 2016
Road Safety Audits – Puerto Rico Strategic Highway Safety Plan, San Juan RP, June 30, 2015
The New Era of Women in Transportation, San Juan, PR, June 18, 2015
“Tercer Congreso de Infraestructura: Infraestructura para el Crecimiento de Puerto Rico” San Juan PR, June 12, 2015
“Desarrollando Estrategias Innovadoras para el Ingeniero y Agrimensor”, San Juan PR, May 5, 2015
Challenges and Opportunities for the Development of Solutions Favorable to all Road Users in Puerto Rico, San Juan, PR, April 24, 2015
Transportation Management Plan, San Juan, PR, March 27, 2015
Highway Design and PS&E Development Workshop, San Juan, PR, February 3-5, 2015
Traffic Signal Training, McCain, Inc., Transportation Controls, Inc., Tampa, FL, December 17-18, 2014
Diseno de Semaforos Accesibles para Peatones, San Juan PR, November 13, 2014
ITE Puerto Rico Section’s Technical Congress, October 24, 2014
6to Simposio: Mantenimiento Sostenible y Eficiencia Energetica, San Juan, PR, June 12-13, 2014
ARC – CSI Crash Conference, Las Vegas, NV June 2-5, 2015
Politica Publica Leyes Oroyectos, Estadisticas y Camnpanas Educativas para Ciclistas y Peatones, San Juan, PR, April 24, 2014

CONTINUING EDUCATION-continued

2014 Mega Viernes Civil by the Puerto Rico Institute of Civil Engineer, San Juan, PR, April 2, 2014
2014 Transportation Week, Department of Civil Engineering and Land Surveying, University of Puerto Rico at Mayaguez, March 30, 2014
2014 ITE Technical Conference, Miami, FL March 9-12, 2014

PUBLICATIONS

Fundamentals of Highway and Roadside Design for the Accident Reconstruction Specialist, Collision Magazine, Fall 2011 Edition

PRESENTATIONS

Integrating GIS into Transportation Safety for Disaster Relief Projects, Mega Viernes Civil, Puerto Rico Institute of Civil Engineers, Puerto Rico, April 5, 2019
The Modern Roundabout, Polytechnic University of Puerto Rico, San Juan, PR, January 14, 2016
Fundamentals of Roadside Design, San Juan PR, June 6, 2015
Challenges and Opportunities for the Development of Solutions Favorable to All Road Users in Puerto Rico, San Juan, PR April 24, 2015
Transportation Management Plan, San Juan PR, March 27, 2015
Safety in Design, Design for Safety, Department of Civil Engineering and Land Surveying, University of Puerto Rico at Mayaguez, 2014
Mayaguez Bypass Cycle Route, 2014 ITE Technical Conference, Miami FL, 2014
Traffic Signal Systems Design, Part II
Traffic Impact Analyses for Site Development, Civil Engineering Class at the University of Puerto Rico at Mayaguez, 2012
Fundamentals of Highway and Roadside Design for Accident Reconstruction, ARC CSI Conference, Las Vegas, NV, 2012
Modern Roundabout Design, 2012
Traffic Calming, Street Safety, Livability and Other Public Purposes, for the Institute of Civil Engineers, Puerto Rico, 2011
Maintenance of Pavements, 4th Symposium of Building Maintenance, 2011

PARTIAL LIST OF COMPLETED PROJECTS

- Hampton Roads Bridges and Tunnels: Klein Engineering, PSC is under contract with Hampton Roads Connector Partners, who are the Design-Builders of the largest project to date in the Commonwealth of Virginia. Currently, Francisco Klein is the traffic engineer of record for the project's Transportation Management Plan (TMP).
- AC-811544: Landslide and Road Damage Evaluation and Repair Recommendations, Multiple Municipalities, Puerto Rico: As part of its recovery efforts, the Puerto Rico Highway and Transportation Authority (PRHTA) has divided the highways and roads of Puerto Rico into regions and units for the preparation of the Technical Reports, and resulting PS&E's for the repairs of landslides caused by Hurricane Maria. Klein Engineering, PSC is working as a Prime Consultant with roads located in the following municipalities: Aibonito, Ciales, Guayama, Naguabo, Toa Baja, Utuado, and Villalba.

PARTIAL LIST OF COMPLETED PROJECTS-continued

- AC-812541: Hurricane María Efforts for Signing and Guardrails, San Juan Metropolitan Area, Puerto Rico: As part of its recovery efforts, PRHTA has divided the highways and roads of Puerto Rico into regions and units for the preparation of the Detailed Damage Inspection Reports, and resulting plans, specifications and construction estimates (PS&E). Klein Engineering, PSC is working as a Prime Consultant with roads in the Metropolitan Area, located in the following municipalities: Bayamón, Cataño, Guaynabo, San Juan, Toa Alta, and Trujillo Alto.
- Hato Rey Plaza District traffic analysis and design. Klein Engineering, PSC is working as consultants to Banco Popular de Puerto Rico and Perkins-Eastman for the analysis of alternative traffic patterns in the Golden Mile area of Hato Rey. Macroscopic and microscopic simulations have been completed for existing and proposed conditions, as well as proposed plans and cross sections.
- Autopilot Drive, Dulles International Airport (IAD). Klein Engineering, PSC served as a subconsultant to provide improvements to Autopilot Drive, at Dulles International Airport (IAD). The KEPSC team worked on the improvements to the traffic signals at the intersections of Autopilot Drive with Aviation Drive and Rudder Road to include pedestrian utilities. This was done as part of the design of a new sidewalk that will provide pedestrian accessibility along Autopilot Drive.
- Temporary Traffic Control, I-66 and I-495, Fairfax County, VA. Klein Engineering, PSC served as a subconsultant to analyze traffic operations for proposed temporary traffic control that will be implemented at the interchanges of I-66 with I-495, Route 123, and Route 243. The I-495 and I-66 Westbound ramp analysis was done using Vissim, and the analysis for Chain Bridge Road and Nutley Street were done using Synchro / SimTraffic.
- On-Call Transportation and Civil Engineering Services for Infrastructure Projects, City of Fairfax, VA. Klein Engineering, PSC is working on the on-call contract with the City of Fairfax for transportation and civil infrastructure works. The City of Fairfax is pursuing multiple projects that are aligned with its Long-Term plan that has the goal of promoting livability. The team has worked on a traffic calming analysis for University Drive, between Kenmore Dr. and Stratford Ave. This analysis involves working with City personnel and engaging the public to assess and determine solutions that will effectively help with traffic calming along the above-mentioned segment.
- Rehabilitation and Scour Mitigation of Bridge No. 1724 at the intersection of PR-852 and PR-181, in the Municipality of Trujillo Alto. Klein Engineering, PSC is the design Consultant to the Puerto Rico Highway and Transportation Authority (PRHTA) for the project, which includes traffic, structural, and environmental analysis and design.
- Road safety assessment for State Road PR-53 and PR-906, in the Municipality of Humacao.
- Improvements to State Road PR-17, from PR-20 to PR-19, in the Municipality of San Juan. Design of pavement markings, signing, traffic signal improvements, and alignment modifications.
- Analyst for the proposed modifications to transit routes in the Metropolitan Area of San Juan presented by the Puerto Rico Integrated Transportation Authority.
- Puerto Rico Capitol Building District, in the Municipality of San Juan: prepared traffic impact analysis for the proposed improvements to vehicular, pedestrian, and bicyclist facilities within the portion of Puerta de Tierra Ward, where the Capitol Building is located. The analysis included over twenty signalized and unsignalized intersections.
- Design Consultant for Autopistas Metropolitanas, LLC (“Metropistas”) for the design of improvements to pavement markings and delineators along State Road PR-22. Prepared analysis report of four segments of road where pavement markings and delineators required improvements. Completed pavement markings, delineators, and typical segment plans for bid purposes. Designed standardized exit and entrance ramps pavement markings and safety enhancement applications. Supervised and supported Metropistas during construction of the project.

PARTIAL LIST OF COMPLETED PROJECTS -continued

- Design of safety improvements and signing for State Road PR-22, exit 7B and Km. 54.1. Prepared plans, temporary traffic control, specifications, and contract documents for a high-priority project, included in Metropistas's accelerated safety upgrades program.
- Ongoing o-call contract with the Puerto Rico Department of Justice for expert witness services.

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