

Gustavo V. Da Silva, P.E.

171 Mt Sinai Ave
Mt Sinai, NY 11766

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SAFETY CONSULTANT, 2012 - PRESENT

- Researched 30+ cases, prepared summaries and reports

EDUCATION AND TRANSPORTATION EXPERIENCE

- Master of Science in Transportation Planning and Engineering from Polytechnic Institute of New York University, 1984, (Now NYU Tandon School of Engineering)
- BS Civil Engineering from NJ Institute of Technology, 1981
- 40 + years in Transportation Planning and Engineering of which 30 years at the LIRR

LIRR - DIRECTOR OF LONG RANGE PLAN. & FORECASTING 4/1991-2021

- Managed model development in TransCAD and ridership forecasting task for the 1st LIRR Network Strategy Study (NSS, 1994)
- Pioneered GIS analyses at the LIRR for mapping ridership and rail assets
- Project Manager for the 2nd LIRR Network Strategy Study (2015-2018)
- Participated in many Origin and Destination surveys of LIRR ridership starting with the Fall 1991 effort and the most recent 2012-2014 effort
- Contributed to many MIS and EIS studies and operational studies: East Side Access, Port Jefferson Branch new Yard Selection, Ronkonkoma Yard Expansion, Third Track Project, Double Track of Main Line project, Lower Manhattan Access
- Project Manager for the operational impacts of Positive Train Control project using RTC simulation software

PROJECT REPORT TO PUT ON THE MANTLE OVER THE FIREPLACE

- Jamaica Capacity Improvements and Interlocking Reconfiguration, in-house 2009-12
- 1913 generational track and switch engineering redesign for high speed operating in collaboration with the Chief Engineer and track staff
- Extensive operational review with RTC simulator for proof of concept: Projects benefits ESA with higher throughput and travel time reduced almost in half for every train transiting thru Jamaica; extensive outreach with the Transportation and Service Planning Departments and the tower operators – Don Nelson was outside senior advisor
- Project includes new Platform F, is now beginning Phase II construction and results in a state of good repair and modernization of all engineering systems.

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Key L.I.R.R. Work Experience - - Director, Long Range Planning & Forecasting

- Project Manager for the Network Strategy Study and Positive Train Control Operations simulations Study
- Extensive and consistent interface with LIRR operating departments, including track strategy documents
- Extensive system-wide analysis of track condition (TC-81) and forecast of future utilization (Tonnage Map)
- Lower Manhattan Access DEIS – LIRR point person on Ridership Demand, Operation Analysis, Jamaica Infrastructure
- ESA DEIS and NSS; Ridership Analysis and Forecasting and Modeling; One-Seat Ride Diesel Fleet Diversions
- Jamaica Capacity Study plus simulations and ESA Support Projects Needs
- Penn Station capacity and operations simulations studies
- Double Track project conceptual design, environmental analyses and traffic forecasting/engineering at grade crossings
- Track Strategy and Geographic Information System (GIS) Utilization
- Main Line Third Track EIS project; Train Operations Simulation for Main Line Third Track Scenarios
- NYSDOT Roslyn Rd Grade Crossing Elimination Design/review; Train Simulations of Gate Down Time at Crossings
- Theoretical and Practical Train Capacity Research for Signal Strategy and Queens Interlocking Improvements
- Extensive Interfacing with MTA and Regional Planning Agencies, Planning and EIS Studies
- Managed Four (4) Direct Reports at LIRR Engaged in LIRR Ridership Model Development
- Managed Consultant Procurements and Contracts, both the within LIRR and in Private Practice
- Analyses of LIRR customer travel patterns w/ the Origin-Destination Surveys & Analysis of data from the Ridership book
- Original NSS – LIRR point person on Ridership Demand modeling for the entire service area

Work Experience

- MTA-LIRR, Dir-Long Range Planning & Forecasting
3/2017 – 3/2021
- MTA-LIRR, Sr. Mgr-Transportation Planning
10/2004 – 3/2017t
- MTA-LIRR, Manager-Transportation Planning
4/1991 – 10/2004
- Raymond Keyes Associates, Project Manager
7/1989 - 4/1991
- Urbitran Engineers, Sr Planner/Engineer
7/1988 - 7/1989
- Edwards and Kelcey, Project Engineer
3/1985 - 7/1988
- HMDC, Transportation Systems Engineer
1/1981 - 3/1985

Professional Engineering Registration

NY, Active; NJ, Inactive CT Inactive

Relevant Internal Memoranda/ Documents

- Conceptual Design and Operations Study of Jamaica Capacity Improvements (JCI) 2009 in-house; 2012 3rd Party
- Primary Architect and Technical Author for the NSS TSO, 2015
- Gate Down Time Simulations at Grade Crossings Along the Future Mainline Third Track, August 2002
- LIRR Track Strategy and Gross Tonnage GIS maps 1998 & 2019

Education

Diploma Real Estate Analysis, NYU, 1989

MS Transp Planning, Polytechnic U., 1984

BSCE, NJIT, 1981

LIRR Basic Operations, 2001

LIRR Effective Business Presentations, 2003

MTA Leadership Development, 2006

Published Papers

High Level Station Platforms & Passenger Safety
Co-Author, AREMA Annual Conference, 10/2015

Transit Ridership Modeling of LIRR's One-Seat Ride to
Manhattan Service, ITE, 1999

Parking Demand Estimation for Large Institutional
Generator, ITE, 1991

Professional Memberships

Institute of Transportation Engineers (ITE)

Transportation Research Board (TRB)