

Christine J. Wagner, P.E.

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Objective:

To best utilize and expand upon my 18 years of experience while progressively moving towards more technical, responsible and managerial positions.

Employment History

Greenman-Pedersen, Inc., Albany, NY,

2014 to Present, on-site consultant at the NYSTA Headquarters in Albany, NY

- ✓ Report directly to senior NYSTA Staff and the Chief Engineer
- ✓ Assist in the development of their Pavement and Bridge Asset Management Systems which help to better explain capital project needs and priorities
- ✓ Supervise a CHA engineer that also works on-site and assists with the development of the NYSTA's Asset Management Systems
- ✓ Manage annual updates of Pavement Distress Data (PDI) and International Roughness Index (IRI)
- ✓ Work closely with IT Department to prototype and develop computer programs to manage pavement and bridge conditions for the past, present and future
- ✓ Assist in the development of a complete work history for each planning segment dating back to original construction and develop corresponding "sawtooth" graphs depicting pavement condition versus work performed
- ✓ Develop sophisticated reports, graphics and statistics regarding pavement conditions, trends and work history
- ✓ Develop performance and financial models in order to forecast and analyze future pavement conditions, treatments and expenditures
- ✓ These systems, tools and models help to "demystify" the decision making process used to create capital programs thus enabling greater transparency
- ✓ Assist in the development of long range capital plans, project prioritization, project development and budgeting
- ✓ Document Asset Management Procedures and Practices by creating users' manuals
- ✓ Assist in the development of PowerPoint Presentations regarding the NYSTA's Asset Management Program
- ✓ Work closely with the Chief Engineer to develop presentations and materials for NYSTA Board of Directors meetings
- ✓ Participate in GPI's newly formed company wide Asset Management Focus Group
- ✓ Group's purpose is to develop ways to best incorporate modern technology such as drones and GIS into asset management programs for our clients

2008 - 2014, Project Engineer, Highway Department

- ✓ Progressed projects from the design report stage through final plans
- ✓ Prepared Design Reports in accordance with the NYSDOT Project Development Manual
- ✓ Assisted in the design and development of detailed construction plans for various bicycle and pedestrian trails, on-site roadways, sidewalks and traffic signals

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- ✓ Designs and plans were completed in accordance with NYSDOT Standards and Specifications, the NYSDOT Highway Design Manual, AASHTO *A Policy on Geometric Design of Highways and Streets*, AASHTO *Guide for the Planning, Design and Operation of Pedestrian Facilities* and AASHTO *Guide for the Development of Bicycle Facilities*
- ✓ Design responsibilities included conceptual layout, development of design alternatives, horizontal alignment and profile development, 3D modeling and surface creation through both Microstation InRoads and AutoCAD Civil 3D, sidewalk and handicap ramp layout in accordance with ADA requirements, drainage modifications, pavement markings and signage, site specific maintenance and protection of traffic, and the development of details and typical sections
- ✓ Performed detailed construction estimates
- ✓ Worked closely with GPI's construction inspectors and VTrans on the construction of the Bennington Bypass (extension of VT 279 around Bennington, Vermont)
- ✓ Responsibilities for this included calculating and checking quantities for various pay items in accordance with VTrans Standards and Specifications through the use of record plans, field changes, surveys, 3D models, development of cross sections and profiles through Microstation InRoads

Nelson & Pope, Engineers & Surveyors, Melville, NY

2003 – 2008, Senior Engineering Technician, Highway Department

- ✓ Assisted in the design and development of detailed roadway construction plans, highway work permit plans, pavement marking plans and traffic signal plans
- ✓ Designs and plans were completed in accordance with NYSDOT Standards and Specifications as well as the standards and specifications of Nassau County, Suffolk County, the Town of Brookhaven, the Town of Islip and the Town of Smithtown
- ✓ Designs and plans for roadways and site entrances included pavement widening, pavement restoration, turn lanes into the site, acceleration and deceleration lanes, new curb lines, sidewalk and handicap ramps in accordance with ADA requirements, drainage modifications, pavement markings and signage
- ✓ Designs and plans for traffic signals included location of traffic signal poles, proper signal head display and placement, location of pedestrian signal poles and push buttons, location of traffic signal conduit, the location of traffic signal pullboxes and vehicular detector loops, traffic signal phases including split phases, phases for left turns, phases for right turn overlaps, phases for pedestrians and emergency pre-emption
- ✓ Calculations were performed to determine traffic signal pole height and pole load analysis was performed using the NYSDOT Span Wire Analysis Program
- ✓ Clients included local municipalities and private developers
- ✓ Performed detailed construction estimates
- ✓ Managed assignments and records for an on-going Town of Brookhaven Pavement Marking Program
- ✓ Initiated, managed and maintained a traffic signal reference book containing company wide traffic signal designs completed in NYSDOT Standards and Specifications and other applicable municipalities
- ✓ Assisted in the preparation of graphics for proposals, traffic impact studies and drainage studies
- ✓ Trained new engineering technicians and draftpersons

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2001 – 2003, Engineering Technician, Highway Department

- ✓ Designed conceptual layouts and alternatives for roadways, parking lots and pavement markings
- ✓ Assisted in the development of detailed construction plans for private and municipal projects
- ✓ Performed detailed construction estimates
- ✓ Served as a member on the company's computer committee to create company wide AutoCAD standards
- ✓ Served as lead CADD technician in the transition from AutoCAD 14 to AutoCAD 2000

1999 – 2001, Draftsperson, Transportation Department

- ✓ Drafted base plan mapping from field survey data, field edit information, GIS mapping and aerial photography
- ✓ Drafted design plans for pavement markings, traffic signals, traffic signal interconnect and roadway improvements
- ✓ Assisted engineers in the development of detailed construction

Professional Licenses

Licensed Professional Engineer in New York State

Education

State University of New York at Geneseo, Geneseo NY, Bachelor of Arts in Mathematics
Briarcliffe College, Bethpage, NY, Associates Degree in Computer Aided Design and Drafting
State University of New York at Farmingdale, Farmingdale, NY
Courses completed include Methods and Materials of Construction
University of North Dakota, EAC/ ABET Accredited Distance Engineering Program
Courses completed include Statics, Dynamics and Surveying

Computer Skills

Proficient in Estimator, Microstation, InRoads, AutoCAD Civil 3D, AutoTURN, Microsoft Office Suite

Recent Technical Training Classes

Concrete Pavement Technology Workshop, American Concrete Pavement Association
Microsurfacing and Thin Overlays, Suit-Kote
Hydrodemolition, Bridge Preservation and Inspection Services
3D Digital Data for Asset Management, FHWA
Using Asset Valuation as a Basis for Bridge Maintenance and Replacement Decisions, TRB
Pavement Data Collection, TRB
Pavement Preservation Series, planned for June/ July, NHI

New York State Employee Training

Equal Opportunity Rights and Responsibilities, Sexual Harassment, Work Place Violence, Internal Controls and Right to Know