

Barret LaGrave P.E.

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November 29, 2021

Dear Hiring Manager,

I am excited to be applying for the Highway Project Engineer position in Albany, NY. The description of the position is in line with my qualifications and is similar to my current role. The work Creighton Manning does is a great fit for what I am looking for as the company projects include both local and larger regional work. This position would help me further my career goals and allow me to fully utilize my potential.

My current role has taught me to lead interdisciplinary teams to fulfill the client's requirements. I am an effective communicator with my team as well as project stakeholders. My primary area of expertise is in major highway and interstate design and rehabilitation, but I also have design experience in local roadway, intersections, sidewalk and multi-use trail design. I have experience as the primary contact and project manager with state and local agencies in New York. My current role is focused on team leadership and project management, but I have relatively recent experience with Microstation and Inroads (soon to be OpenRoads).

On past projects I have been able to utilize my knowledge in several areas to provide additional value to our clients. I have provided streamlined Work Zone Traffic Control plans for projects reducing costly staging and overall construction duration. I have proposed efficient pavement design concepts that allowed the pavement design life requirements to be met while also reducing potential costs.

My hope is to grow as both an employee of Creighton Manning and as a professional in this role. I will work diligently to become a productive part of the team as quickly as possible. I am open to discussing a range of potential salary requirements depending on the expected work schedule and responsibilities.

Thank you for your time and consideration. I am looking forward to speaking with you about the Highway Project Engineer position and about Creighton Manning.

Sincerely,

Barret LaGrave P.E.

Barret LaGrave, PE

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469 Miller Road East Greenbush, NY 12061

Objective:

To find an exciting Civil Engineering position as a Project Manager or Senior Highway Engineer.

Summary of Experience:

I have 15 years of experience in highway design and construction. My experience includes pavement evaluation, traffic and accident analysis, existing pavement analysis for projected life and rehabilitation/repair options, roadside safety analysis and estimating. I also have experience with Design Build Projects from both Design Builder and Quality Assurance sides with multiple agencies throughout the Northeast. My current responsibilities include Project Manager and Design Task Lead roles on multiple projects. I am also proficient with Bluebeam, Microstation and InRoads.

Registrations:

PE – NYS, 2011

Education:

Rensselaer Polytechnic Institute BS, Civil Engineering 2006

Experience: (project descriptions on following pages)

WSP USA Inc– (June 2006 to Present) - 433 River Street 7th Floor Troy, NY 12180

Title: Senior Lead Consultant – Civil Engineer

- ✓ Deputy Design Quality Assurance Engineer – NYSTA Cashless Tolling, NY (2019-Present)
- ✓ Project Manager – Sing Sing Correctional Facility Vehicle Bridge Replacement (2020- Present)
- ✓ Project Manager – Dutchess County CR 28 Rehabilitation (2021 – Present)
- ✓ Project Manager – NYSTA I-95 Last Mile Reconstruction (2018 - Present)
- ✓ Lead Pavement Design Engineer – CTDOT I-691 Resurfacing, Rehabilitation and Safety Improvements (2020-Present)
- ✓ Lead Project Engineer – CTDOT I-95 Improvements (2018-Present)
- ✓ Project Engineer – NYSDOT Route 17 PEL Study (2020 – Present)
- ✓ Lead Project Engineer – NYSTA Cashless Tolling Concept & RFP Phase (2018)
- ✓ Lead Project Engineer – NYSTA Pavement Rehab and Minor Structural Repairs of Interstate 95, New York State Thruway Authority (2016-2020)
- ✓ Lead Project Engineer – NYSTA Interchange 24 to 25 Rehabilitation (2018)
- ✓ Project Engineer – RFK ORT Design, New York, NY (2016-2017)
- ✓ Project Engineer – RFK Toll Plaza Reconstruction (2016-2018)
- ✓ Project Engineer – Bronx Whitestone Bridge Rehabilitation (2013-2016)
- ✓ Project Engineer – Carlls Straight Path Bridge over 1-495 Design/Build, El Sol Contracting, Suffolk County, NY, USA (2014)
- ✓ Project Engineer – Reconstruction of the Thruway Mainline Between Interchanges 23 & 24, Albany, NY, NYSTA (2006 -2010)
- ✓ Project Engineer – I-287 (Cross-Westchester Expressway), Interchange Westchester County, NY, NYSDOT (2009 -2010)
- ✓ Project Engineer – Sprain Brook Parkway, White Plains, NY, NYSDOT (2009 -2010)
- ✓ Project Engineer – Northern State Parkway, NYSDOT Reg. 10 (2007)
- ✓ Project Engineer – Cohoes Multi-Use Path, Cohoes, NY (2007)
- ✓ Project Engineer – Route's 25A, 27 and 110 Mill and Fill, NYSDOT Reg. 10 (2006)
- ✓ Project Engineer – NYSDOT Highway Safety Investigations (2006 - 2008)

Project Descriptions

WSP USA Inc

- ✓ **Deputy Design Quality Assurance Engineer – NYSTA Cashless Tolling, NY (2019 - Present)**
 - Oversaw the design quality of all aspects of design for this project, ensuring that the design and Quality Control (QC) procedures portion of the Quality Control Plan (QCP) were implemented.
 - Verified that all designs are in full compliance with NYSTA, NYSDOT and Federal Standards.
 - Performed periodic and over-the-shoulder (OTS) quality reviews.
 - Coordinated with NYSTA's Quality Assurance (QA) personnel in addressing programmatic issues within the QCE's organization.

- ✓ **Project Manager – Sing Sing Correctional Facility Vehicle Bridge Replacement (2020 - Present)**
 - Responsible for the oversight of all design related aspects of the project.
 - Coordinated with OGS, DOCS, MNRR and subconsultants in a highly complex and constrained work environment.

- ✓ **Project Manager – Dutchess County CR 28 Rehabilitation (2021 – Present)**
 - Responsible for the oversight of design and modeling of the rehabilitated roadway, traffic signals and drainage system.
 - Provided traffic signal analysis and design.
 - Provided construction support services and coordination with field staff and the County.

- ✓ **Project Manager – NYSTA I-95 Last Mile Reconstruction (2018 - Present)**
 - Responsible for the oversight of all pavement slab layout design and coordination with WZTC and utility layout.
 - Developed pavement slab layout plans for the complete reconstruction of the I-95 mainline and the resurfacing of the Byram River Bridge.

- ✓ **Lead Pavement Design Engineer – CTDOT I-691 Resurfacing, Rehabilitation and Safety Improvements (2020 - Present)**
 - Provided composite pavement evaluation and design including ESAL based design.
 - Created temporary WZTC pavement sections in accordance with the Pavement Design Manual.
 - Designed and detailed the layouts of precast panel repairs.

- ✓ **Lead Project Engineer – CTDOT I-95 Improvements (2018 – Present)**
 - Designed pavement section and pavement joint layout for this section of roadway.
 - Performed preliminary and final design for the pavement rehabilitation and minor structural repairs along the corridor.

- ✓ **Project Engineer – NYSDOT Route 17 PEL Study (2020 – Present)**
 - Created interchange concept plans that modernize and conform with interstate standards.
 - Assisted in developing the highway related sections of the PEL study.
 - Developed mainline alternatives that met the project goals.

- ✓ **Lead Project Engineer – NYSTA Cashless Tolling Concept & RFP Phase (2018)**
 - Created concept level plans for the conversion of the NYSTA to cashless tolling.
 - Coordinated with NYSTA staff to ensure continuity of operations at each site.
 - Assisted NYSTA staff with RFP creation and bid documents.

- ✓ **Lead Project Engineer – NYSTA Pavement Rehab and Minor Structural Repairs of Interstate 95, New York State Thruway Authority (2016 - 2019)**
 - Designed pavement section and pavement joint layout for this section of roadway.
 - Performed preliminary and final design for the pavement rehabilitation and minor structural repairs along the corridor.
 - Created comprehensive work zone traffic control staging for project corridor.
 - Evaluated cost implications for various construction and rehabilitation alternatives.

- Designed roadside safety improvements for the project length to meet current standards.
- ✓ **Lead Project Engineer – Rehabilitation of the New York State Thruway Between Interchanges 24 & 25, Albany, NY, NYSTA (2015 - 2016):**
 - Responsible for the work zone traffic control to be followed during the rehabilitation project.
 - Coordinated and prepared submissions to the New York State Thruway for review.
 - Performed an extensive pavement evaluation, traffic analysis, accident analysis, and projected life of existing pavements.
 - Provided multiple design alternatives with associated design life, timelines and costs.
 - Provided guiderail design and roadside safety improvements for the length of the project.
- ✓ **Project Engineer – RFK ORT Design, New York, NY (2016 - 2017):**
 - Developed horizontal and vertical controls through project area and tie ins to the existing pavement.
 - Developed work zone traffic control staging for the installation of an Open Road Tolling system on the Queens and Bronx approaches of the RFK Bridge.
 - Created work zone traffic control plans.
 - Designed roadside safety improvements within the project limits.
- ✓ **Project Engineer – RFK Plaza Reconstruction, New York, NY (2016 - 2018):**
 - Designed the horizontal and vertical alignments, along with super elevations for the main span and aligning ramps.
 - Created a 3D surface for the project using InRoads software.
 - Created the concepts for the Work Zone Traffic Control.
- ✓ **Project Engineer – Bronx Whitestone Bridge Rehabilitation (2013 - 2016)**
 - Designed work zone traffic control for on grade roadway sections and interactions with local ramps.
 - Created local ramp alignments to tie into the mainline design.
 - Designed guiderail and roadside safety measures for local roadway ramps.
 - Responsible for project-wide review and distribution of submittals and other construction related design questions.
 - Reviewed shop drawings and RFI's.
- ✓ **Project Engineer – Carlls Straight Path Bridge over 1-495 Design/Build, El Sol Contracting, Suffolk County, NY, USA (2014)**
 - Designed the horizontal and vertical alignments, along with super elevations.
 - Created a 3D surface for the project using InRoads software.
 - Created Work Zone Traffic Control staging plans.
- ✓ **Project Engineer – Reconstruction of the Thruway Mainline Between Interchanges 23 & 24, Albany, NY, NYSTA (2006 - 2010)**
 - Created the horizontal and vertical alignments along with super elevations.
 - Designed roadside safety aspects to meet current standards.
 - Evaluated the existing drainage system and designed improvements throughout the project length.
 - Responsible for the work zone traffic control to be followed during the reconstruction project.
 - Coordinated and prepared submissions to the New York State Thruway for review.
- ✓ **Project Engineer – I-287 (Cross-Westchester Expressway), Interchange 8 Westchester County, NY, NYSDOT (2009 - 2010)**
 - Responsible for design and 3D modeling of both temporary and permanent MSES walls used during construction.
 - Assisted in the design of the roadway profiles and alignments to all applicable standards. In several instances the horizontal and vertical alignments of the roadways were realigned to better facilitate their construction.
 - Designed cross sections for key locations of the MPT to display the typical sections to be expected during different phases of the construction stages including the necessary

barriers and offsets required.

- ✓ **Project Engineer – Sprain Brook parkway, White Plains, NY, NYSDOT (2009 - 2010)**
 - Responsible for design and 3D modeling of both temporary and permanent MSES walls used during construction.

- ✓ **Project Engineer – Northern State Parkway, NYSDOT Reg. 10 (2007)**
 - This was an emergency job that required a quick solution to avoid accidents and delays that had resulted from the excess water on the roadway.
 - Created a design solution to a drainage problem on the Northern State Parkway caused by a recent construction project.
 - Designed a resurfacing template for the roadway to better direct the flow of water off the roadway, in addition to clearing and grading of nearby woods to provide proper sight distance.

- ✓ **Project Engineer – Cohoes Multi-Use Path, Cohoes, NY (2007)**
 - Lead designer for a half mile section of multi-use path along an abandoned rail bed.
 - Design included: Multi-use path, landscaping, lighting and drainage.
 - Coordinated between state, local and private organizations for successful accomplishment of this project due to a wide variety of funding sources.

- ✓ **Project Engineer – Route's 25A, 27 and 110 Mill and Fill, NYSDOT Reg. 10 (2006)**
 - Responsible for the design of the rehabilitation of sections of these roads by milling and filling the existing roadways.
 - Created the work zone traffic control staging for all stages within each site.

- ✓ **Project Engineer – NYSDOT Highway Safety Investigations (2006 - 2008)**
 - The project was to analyze the historic accident data on the roadway to determine engineering solutions that would improve the safety of the roadway.
 - Report submitted to NYSDOT for review.
 - Conducted over 30 accident investigations on numerous NYSDOT owned roadways within NYSDOT Region 8.
 - Meetings with NYSDOT and further review processes were completed prior to the submittal of a final report with recommendations for implementation.