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## Curriculum Vitae of John A. Nawn

Over 38 years' experience in Civil and Structural Engineering, specializing in Traffic and Transportation Engineering, Highway, Bridge and Street Design and Construction, Transit Facility Design, Vehicle Accident Reconstruction and Human Factors related to the driving task, Building Damage Assessments, Utilities Construction, Storm Drainage, Pedestrian Safety, Walkway Surface Evaluations, Concrete and Asphalt Pavement Evaluations, parking lots, building Codes and Standards and ADA compliance.

**PROFESSIONAL ENGINEER:** PA, NJ, MD, DE, OH, MI, MA, MO, and RI.

**EDUCATION:** BS in Civil Engineering (1987), Drexel University, Philadelphia, PA  
MS in Civil Engineering (2012), Drexel University, Philadelphia, PA  
Traffic Crash Reconstruction II (2014), Northwestern University, Evanston, IL

**AWARDS:** 2017 Civil Engineer of the Year, American Society of Civil Engineers, Philadelphia  
2017 Delaware Valley Engineer of the Year, Delaware Valley Engineers Week  
2011 State Engineer of the Year, Pennsylvania Society of Professional Engineers  
2011 Delaware County Engineer of the Year, PA Society of Professional Engineer  
2008 Engineering Manager of the Year, American Society of Civil Engineers, Philadelphia

**ADJUNCT PROFESSOR:** *Temple University*, Department of Civil and Environmental Engineering; professor for two Graduate level courses; Transportation Engineering and Transportation Systems Management. (2012 to present)  
*Widener University*, Department of Civil Engineering; professor for the required undergraduate Highway Engineering Course, (2019 to present); professor for graduate level course in Technical Communications, (2023 to present).

### **PROFESSIONAL BACKGROUND:**

#### **10/2021 to Present –Nawn Forensics– Newtown Square, PA**

Independent professional engineer providing forensic engineering analyses and expert witness services to plaintiffs and defendants on matters including highway design, highway construction, highway maintenance, work zone traffic control, traffic control devices including traffic signals, signs and markings, intersection design, pavement and road surface design and maintenance, human factors related to the driving task, accident analyses and trucking related matters, snow and ice control, parking lot design, layout, operation and pedestrian accommodation, pedestrian movement, sidewalks, ramps, crosswalks, ADA accessibility, municipal and public utilities placement, operation, and maintenance within the public right-of-way, construction management, professional engineering practice, liability, and standard of care, construction management, premises liability, stairway and means of egress analyses. Over 600 expert reports completed. Testified in deposition and/or trial over 50 times as an expert witness, in local, state, and federal court in multiple states and jurisdictions.

#### **01/2022 to Present – Delon Hampton Associates Chartered – Silver Spring, Maryland**

Engineering team member providing Project Management Oversight (PMO) services on transit, bus, and rail projects in excess of 500M on behalf of the Federal Transit Administration (FTA). Presently assigned to provide engineering oversight on the Raritan River Bridge Replacement on NJ Transit's North Jersey Coast Line (heavy rail) and MTA's 2.5B ADA Station upgrade program covering stations on NYCT, Metro North, and Long Island Railroad.



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**10/2021 to 12/2021– ProNet Group, Inc.** – Newtown Square, Pennsylvania.

Senior Project Engineer with national Forensic Engineering and Consulting firm providing professional civil and structural engineering investigations, analyses, and evaluations to clients nationwide.

**10/2012 to 9/2021 – Fleisher Forensics** – Ambler, Pennsylvania.

Forensic Engineer responsible for evaluating matters involving highway and traffic engineering, including accident reconstruction, intersections; urban and rural roadways; interstate highways; parking lots; signage, pavement marking and traffic controls; codes and zoning requirements; sidewalks and crosswalks; public utilities including sanitary sewer, storm sewer and water mains. Consulting in code compliance and standards; work zone safety, construction management, claims and safety. Evaluations of ice, snow control, grading, storm water management, detention and retention basins, and soil and sedimentation control. Walkway safety and ADA compliance analyses.

**8/11 to 6/12 - Czop Specter, Inc., Worcester, PA, Executive Vice President.** Executive Vice President/Chief Engineer and a member of the Board of Directors

**2/10 to 8/11 - KS Engineers, P.C., Philadelphia, PA, Vice President.** Manager of PA operations. Responsibilities included direction of operations, marketing & business development, technical direction, project management and application of QA/QC policies.

**9/08 to 2/10 - Patrick Engineering, Wayne, PA, Business Unit Leader.** Group Manager for PA Transportation Team. Responsibilities included management of technical staff and providing technical direction and quality control on bridge, roadway and utility projects.

**10/05 to 8/08 - GAI Consultants, Inc., Berwyn, PA, Vice President.** Managing Officer (Principal) of regional operations. Oversaw staff of design and inspection professionals providing design and construction engineering services including Civil Engineering, Highway Engineering, Traffic Engineering, Structural Engineering, Geotechnical Engineering, Environmental Engineering, Materials Testing and Inspection Services.

**02/02 to 10/05:** URS Corp, Phila., PA, Director Transportation & Municipal Eng., Branch Manager

**03/01 to 02/02:** DMJM+Harris, Philadelphia, PA, Project Manager

**05/94 to 03/01:** Valley Forge Laboratories, Inc., Devon, PA, Director Transportation Engineering

**06/89 to 05/94:** Remington & Vernick Engineers., Haddonfield, NJ, Municipal Project Engineer/Manager

**06/87 to 06/89:** NJ Department of Transportation, Trenton, NJ, Highway Project Engineer

### **SELECTED PROFESSIONAL EXPERIENCE**

**Interstate 95 Point of Access Study, Girard Avenue Interchange, PennDOT,** Provided traffic engineering review and guidance in the development of the Point of Access Study.

**Interstate 95 Cottman Avenue Interchange, PennDOT,** Task Manager for the preparation of the multi-phase, Maintenance and Protection of Traffic Plans to support the full reconstruction of the six-lane urban interstate highway.

**Northeast Extension Widening, MP A20 to A30, Pennsylvania Turnpike Commission,** Task Leader for local road detour route evaluation & analyses to support the replacement of four bridge structures.

**Mainline Widening, Valley Forge to Norristown, Pennsylvania Turnpike Commission,** Task Leader for the traffic control design to support full detour and staged construction alternatives.

**Point of Access Study Review, PennDOT,** Provided Traffic Engineering review services on two Point of Access Studies for interstate highway access in the Pittsburgh area.

**Maintenance and Protection of Traffic, US 202, PennDOT,** Task Leader for design of Traffic Control Plans for a section of the US 202 reconstruction and widening north of Norristown.



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**Philadelphia International Airport Access/I-95, PennDOT,** Task Leader for the redesign of the traffic signal systems serving the main access points to Philadelphia International Airport.

**Interstate 95, Girard Point Bridge, PennDOT,** Task Leader for developing and estimating the Road Users Liquidated Damages clause to reduce impact & evaluate the various traffic control measures.

**South Street Bridge Detour Mitigation Project, City of Philadelphia, PA,** Project Manager for 32-signal corridor upgrade project involving signal timing and equipment improvements.

**Broad Street Ice Study, PennDOT,** Project Manager for analyses and evaluation of detour route to support temporary closure of the Roosevelt Expressway.

**Maintenance & Protection of Traffic, Kernville Viaduct & War Memorial Bridge, PennDOT,** Project Manager for design of detour route signing including re-timings of the traffic signals

**Bustleton Pike Reconstruction, PennDOT,** Project Manager, for re-alignment and reconstruction of a two-lane urban collector, to correct geometrically deficient combination horizontal and vertical curve.

**Central Business District Traffic Study & Signal Design,** City of Pottsville, PA, Optimized and coordinated the signal timings to create better levels of service. Prepared revised signal design plans.

**Montoursville Airport Access Road, PennDOT,** Task Leader for traffic engineering for a new roadway connection from the Williamsport-Lycoming County Regional Airport to the local interstate.

**Interstate 80, Open Road Tolling Conversion, Delaware River Joint Toll Bridge Commission,** Project Manager for construction engineering services to contractor on Open Road Tolling conversion project.

**Schuylkill River Bridge Rehabilitations, Penrose Avenue & George C. Platt Bridges, PennDOT** Task Leader responsible for preparation of Maintenance and Protection of Traffic Control Plans.

**SR 0196-0652, Superstructure Replacement, Design/Build, PennDOT** Project Manager for single span steel beam bridge. Included preparation of TS&L plans and calculations and final plan preparation.

**SR 0309 over Toby Creek, Substructure and Superstructure repairs, Design/Build, PennDOT** Project Manager for two single span concrete bridges on SR 0309 in Luzerne County.

**SR 0502 over Springbrook Creek, Culvert Replacement, Design/Build, PennDOT,** Project Manager for culvert replacement on SR 0502 in Lackawanna County

**SR 0191-01B, Ackermanville Bridge, Design/Build, PennDOT,** Project Manager for design of bridge and culvert replacement on SR 0191 in Northampton County.

**Delaware River Bridge Scour Remediation, Delaware River Joint Toll Bridge Commission,** Project Manager for construction engineering services on scour remediation projects on six.

**Four Bridges, Delaware County, PennDOT,** Project Leader and QA/QC manager for four bridge replacements in Delaware County.

**Jim Thorpe Bridge, SR 903, PennDOT,** Task Leader for the preliminary engineering and final design of new bridge over the Lehigh River in Jim Thorpe.

**Cameron Bridge Replacement, PennDOT,** Led the traffic engineering efforts to support the development and consideration of 14 different alternative intersection/bridge designs.

**Betzwood Bridge, PennDOT,** Task Leader for the design of three new traffic signals to accommodate the new bridge and associated new development and access points.

**SR 0082 and Marriot Drive, Coatesville, PA,** Project Manager for the design of the reconstruction of SR 0082 to support a new signalized intersection and left turn lane.

**SR 0030 and Berkeley Road, Devon, PA,** Prepared Signal Design Study, Warrant Analyses and Traffic Signal design for new signal at this intersection.

**Traffic Impact Study & Traffic Signal Design, SR 0322 & 4017, Downingtown Area School District** Project Manager



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for the preparation of the Traffic Impact Study and design of a new traffic signal.

**Traffic Impact Study & Traffic Signal Design, SR 0093, SR 3026, Laurel Mall Associates, PA,** Project Manager for Traffic Impact Study and the design of two traffic signals.

**North Penn Signals, PennDOT,** Provide traffic engineering and traffic signal design services to assist the completion of the final design of six revised and 5 new traffic signal projects in the Lansdale Area.

**Corridor Analyses, Central Business District Parking Study & Traffic Calming Plan, Borough of Pottstown, PA,** Project Manager, 4-lane arterial corridor within urbanized central business district.

**Statewide Traffic Impact Study Reviews, DeIDOT,** Project Manager/Traffic Task Leader for the review of traffic impact studies statewide on behalf of DeIDOT.

**Traffic Impact Study, Lexus of Lehigh Valley, PA,** Prepared and presented traffic study to support new automobile dealership including the re-timing of four adjacent signalized intersections.

**Traffic & Parking Study, Harrisburg International Airport,** Project Manager for the preparation of a Traffic Impact Study and Traffic Signal Plans to support the airport.

**Traffic Impact Study, Boulevard Plaza, PA,** Project Manager for preparation of access analysis and signal timing revisions for large shopping complex in northeast Philadelphia.

**Traffic Impact Study, Strath Haven MS, PA,** Project Manager to support Middle School expansion.

**Traffic Study & Landside Master Plan, Philadelphia International Airport.** Deputy Project Manager for management of data collection efforts, traffic analyses and preparation of the final report.

**Transportation Master Planning, Villanova University, PA,** Project Manager for conducting data collection, traffic models and alternative analyses including design of two new traffic signal systems.

**Traffic & Civil Engineering Design, The Ohio State University,** Project Manager for traffic and civil engineering

assignments to support electrical facilities upgrades at The Ohio State University.

**Municipal Traffic Impact Studies, Whitmarsh Township, PA,** Project Manager for over three dozen traffic impact studies to support and analyze various land developments and land uses.

**Borough Traffic Engineer, Narberth, PA,** provided engineering design, review and ordinance development services on a number of traffic engineering issues.

**Municipal Traffic Engineer, Penn Township, PA,** provided engineering design, review and ordinance development services on a number of traffic engineering issues including traffic signal design.

**Township Traffic Engineer, Elk Township, PA,** Provided municipal traffic engineering support for review of land development projects and developer commissioned traffic impact studies.

**Township Engineer, Marple Township, PA** Managed municipal inspections, developed capital programs, conducted planning and zoning reviews, designed and manage annual road program.

**Civil & Traffic Engineering Services, Tower Bridge Complex, Oliver Tyrone Pulver Corp., PA** Project Manager for various traffic engineering tasks and civil engineering designs.

**Construction Management Services, Oliver Tyrone Pulver Corporation, PA,** Construction Manager for intersection reconstruction and traffic signal installation project.

**Central Delaware River Waterfront Master Plan, Delaware River Waterfront Corporation, Phila.** Project Manager, utility assessment, floodplain analysis, site assessments and pier stability assessments.

**Walgreens, Philadelphia, Pennsylvania,** Project Manager for site design and development

**The Parking Spot, Philadelphia, Pennsylvania,** Project Manager for 1000 car private parking facility

**The Hickman, Penrose Properties, PA,** Project Manager responsible for providing all civil, traffic, survey, and environmental engineering services for new multi-story, age restricted facility.



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**Vault Design, Northeast Utilities, CT,** Project Manager for the design of pre-cast concrete vault covers.

**Utility Coordination Research and Guidelines Development, PennDOT,** Prepared recommendations to utility coordination procedures including recommendations for improvement to manual(s).

**Dams and Lakes, Structural and Hydraulic Analyses, Southwestern Energy Corporation, PA,** Project Manager for the structural and geotechnical investigation of two dam structures.

**R-3 Line Extension, Elwyn to Media, SEPTA,** Project Manager for 2-mile extension of rail line including track design, electrification design, communications and signaling, six bridge structures and a new ADA compliant station. Oversight of all engineering functions. (2005)

**Red Rose Transit Authority, Paradise Railroad Station, Paradise, Lancaster County, PA.** Project Manager responsible for the design oversight of a new rail station on Amtrak's Harrisburg Line. **Signing Authority/Engineer of Record.** (2001 to 2005)

**SEPTA Warminster Station.** Project Manager for Transportation Impact Study to assess the impacts of the expansion of this station on the local road network. Tasks also included analysis of proposed circulation patterns, parking layout and pedestrian circulation. Particular attention was paid to pedestrian and vehicle interaction, pedestrian safety and ADA compliance. (2001)

**SEPTA GEC/Elm Street Station Expansion** Project Manager for Transportation Impact Study to assess the

impacts of the expansion of this station on the local road network. Tasks also included analysis of proposed circulation patterns, parking layout and pedestrian circulation. Particular attention was paid to pedestrian and vehicle interaction, pedestrian safety and ADA compliance. (2001)

**Scour Protection for Lieutenant River Bridge, AMTRAK, CT,** Project Director for construction drawings and environmental permitting for the construction of rock scour protection. Oversight of all engineering functions. (2008-2009)

**Reconstruction of Culvert 3.35, AMTRAK, CT,** Project Director for construction drawings and environmental permitting for relining of Culvert 3-35, due to erosion, on Amtrak's Northeast Corridor. Oversight of all engineering functions. (2008-2009)

**Sharon Hill Train Station, PA,** Project Manager for design of the historic reconstruction of station on SEPTA/Amtrak NEC including ADA compliance. Oversight of all engineering and architectural functions. (1995-2005)

Project Manager for the **Bernardsville Rail Station Improvement Project in Bernardsville, Somerset County, NJ.** This project included redesign of station platforms, reconfiguration and expansion of the 200-car parking lot, pedestrian and ADA improvements, along with drainage, landscaping and environmental permitting. (1993)

**Conrail.** Project Manager for a Conrail/pedestrian grade crossing project in Brooklawn, NJ. Project included new crossing signals/gates/protection, pedestrian route studies, and ADA compliance issues. (1993).

#### **AFFILIATIONS:**

- National Society of Professional Engineers, *Fellow*
- Institute of Transportation Engineers, *certified Professional Traffic Operations Engineer*
- Community Transit of Delaware County, (DELGO), *former Chairman of the Board*
- Pennsylvania Society of Professional Engineers, *Past President*
- Newtown Township, Delaware County, *former Township Supervisor/Chairman*