

DAVID R. BIZUGA

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PROFESSIONAL OBJECTIVE

To use my subject matter expertise in civil engineering to educate NJDOT, county, municipal and/or consultant engineers in areas such as geometric, guide rail and crash cushion design.

WORK EXPERIENCE

To date, I have **forty (40) years of experience in design engineering** of In-house highway projects, **thirty-two (32) years of which shall have been in a supervisory capacity**. I also managed the **production (project management) of In-house design projects for 19 years**. **I have been a manager for Roadway Design for over 14 years**.

Summary: July 1978 to Present

New Jersey Department of Transportation, 1035 Parkway Avenue, PO Box 600,
Trenton, New Jersey 08625.

- A. Training Specialist: July 2019 to Present (2 years, 9 months)
- B. Senior Executive Manager: August 2015 to August 2018 (3 years)
- C. Manager 2 Roadway Design: December, 2004 to August 2015 (10 yrs, 8 months)
- D. Supervising Engineer 2, Surface Design: April, 1999 to Dec., 2004 (5 yrs, 1 month)
- E. Engineer, Specifications, Transportation: January 1999 to April, 1999 (0 yrs, 3 months)
- F. Project Engineer, Surface Design : June 1996 to January 1999 (2 yrs, 6 months)
- G. Principal Engineer, Transportation : August 1986 to June 1996 (9 yrs, 11 months)
- H. Senior Engineer, Transportation : June 1982 to August 1986 (4 yrs, 2 months)
- I. Assistant Engineer, Transportation : January 1982 to June 1982 (0 yrs, 5 months)
- J. Engineering Aide 1 : July 1978 to January 1982 (3 yrs, 6 months)

A. Part Time Training Specialist (Temporary Employment Services (TES) employee) in Director's Office for Highway and Traffic Design.

(1) Teach classes on the Roadway Design Manual, Standard Roadway Construction Details and Sample Plans. Prepare, update and/or revise course material to meet the latest baseline documents, such as power point slide presentations, class problems and handouts.

(2) Schedule course dates and times in Training Room A.

(3) Train the staff in a professional and courteous manner. Lecture and answer questions during class. Classes will include problems (informal and formal) and may also include learning games/competitions.

(4) Consult on baseline document changes on an as needed basis. This may include attending meetings and preparing written comments.

B and C. Senior Executive Manager and Manager 2 Roadway Design: Roadway Design Group 1 (Additional duties as SE Manager shown in bold)

(1) I manage Roadway Design Group 1. My office is responsible for the production of In-House design projects. These projects are multi-disciplined transportation projects that cross division lines (Structures, Environmental, ITS, etc.), therefore, each project is designed using a team approach. I manage and/or supervise two Supervising Engineers in the Production Unit, two design squad leaders, an Administrative Assistant 3, **a Supervising Engineer 2 in Cherry Hill Design/Survey and a Supervising Engineer for Mt. Arlington Design/Survey** as part of this effort.

(2) I manage the updating of the In-House Status of Plans Report for each assigned project. I oversee the development of design schedules and budgets and monitor the project schedules and budgets accordingly. All overtime requests for my office go through me and I set up the monitoring of the overtime budget.

(3) I represent the Director, Highway and Traffic Design, on an as needed basis.

(4) I provide general design support and/or coordinate with other Units on an as needed basis and perform general project related activities on an as needed basis to maintain delivery of the capital program.

(5) I prepare an employee development plan for each assigned staff member and monitor their performance.

(6) I am the subject matter expert in production management of In-house projects, geometric design, design exceptions, guide rail design, crash cushion design, and the American disabilities Act. I update the baseline documents (Roadway Design Manual, Standard Construction Details, etc) for these areas.

(7) I teach engineering courses (PE continuing education credits) at Rutgers' Center for Advanced Infrastructure and Transportation Safety Research Center (CAIT) to In-house personnel, consultants, and township and county engineers.

(8) I train CETs to Principal Engineers in the Division of Highway and Traffic Design on the Roadway Design Manual, Sample Plans, and Construction Details on an individual and classroom basis. I also have one day retreats for my entire office for team building.

(9) I am a member of AASHTO Task Force 13, Midwest States Pooled Fund, and AASHTO Technical Committee on Roadside Safety

D. Supervising Engineer 2, Production Unit, Geometric Design

(1) I manage the production of In-House design efforts and coordinate the multi-disciplined design efforts necessary to prepare construction contract plans and documents. I supervise three team leaders, two design squad leaders and the ROW Engineering Support Unit leader as part of this effort.

(2) I prepare detailed cost estimates and technical proposals. Provide input to the Project Manager and Cost Control in developing Primavera schedules and budgets for assigned projects and monitor the project schedules and budgets accordingly. I prepare and/or review all overtime requests for my office monitor the overtime budgets.

(3) I conduct and/or oversee the Design Team Workshops for each assigned project.

(4) I supervise the updating of the In-House Status of Plans Report for each assigned project.

- (5) I represent the Manager, Civil Engineering, on an as needed basis.
- (6) I provide general design support and/or coordinate with other Units on an as needed basis and perform general project related activities on an as needed basis to maintain delivery of the capital program.
- (7) I prepare an employee development plan for each assigned staff member.
- (8) I train CET's to Principal Engineers in my Production Unit on the Roadway Design Manual, Sample Plans, and Construction Details on an individual and classroom basis.

E. Engineer, Specifications, Transportation, Interface Control Unit of Quality Management Services

- (1) I develop and revise Standard Specifications for NJDOT Standard Specifications for Road and Bridge Construction.
- (2) I develop and revise Standard Details for NJDOT Standard Roadway Construction Details and Sample Plans.
- (3) I provide technical review and evaluation of proposed Baseline Document Changes (BDC's) submitted by other units within DOT.
- (4) I coordinate in-house and FHWA review and approval of BDC's. I also determine if proposed BDC significantly affects cost or schedule of any project and recommend type of implementation.
- (5) I resolve questions raised by specwriters, resident engineers and consultants regarding interpretation of the standard specifications and details.

F. Project Engineer, Surface Design, Interface Control Unit of Quality Management Services

- (1) I plan and organize the work and supervise the staff of the Interface Control Unit. I develop the work programs and working procedures involved in reviewing, evaluating, developing and processing Baseline Document Change requests.
- (2) I am responsible for the training and development of assigned engineering personnel.
- (3) I give appropriate assignments and instructions to my staff of six engineers and specification writers, provide them with needed personnel, equipment, materials and supplies and check their work to see that proper procedures are followed, that reasonable standards are maintained and that desired objectives are achieved.
- (4) I supervise the work operations and/or functional programs and has responsibility for employee evaluations and for effectively recommending the firing, hiring, promoting, demoting and/or disciplining of my staff.
- (5) I collaborate with Directors, project managers, technical specification writers, managers, FHWA engineers, officials and engineers of other public and private agencies, and with consulting engineers, and others to coordinate properly the development of Baseline Document Changes and the Metrication of NJDOT Standards project.
- (6) I resolve conflicts between State and Federal procedures and design standards, where usually no precedent for such resolution has been established.
- (7) I supervise the development of NJDOT Standard Specifications for Road and Bridge Construction; and Standard Construction Details for both English and Metric versions.
- (8) I was the NJDOT Chairperson of the Joint FHWA/NJDOT Traffic Control Task

Force. My work included identifying current deficiencies in the Traffic Control Plans and specifications and initiating actions to provide for improved TCP's and supervising the preparation of TCP design guidelines, details, procedures and specifications.

(9) I manage in-house engineers and consultants working on the Metrication of NJDOT Standards project. I plan, organize and supervise their work. Also, I process consultant invoices, review consultant proposals and supervise the preparation of project agreement modifications.

G. Principal Engineer, Transportation, Bureau of Design Standards and Economic Design Analysis

(1) I reviewed construction plans for conformance to NJDOT design standards (certification Acceptance).

(2) I reviewed Typical Sections and design exceptions for approval.

(3) I investigated complaints regarding safety deficiencies.

(4) I provided assistance to NJDOT personnel regarding geometric design, guide rail design and photolog usage.

(5) I revised and developed geometric design standards and guidelines and standard construction details and supervised (2 engineers) the development of same.

(6) I prepared a cost estimate for the uncompleted portions of all Interstate routes in the Interstate Cost Estimate every two years and supervised (3 engineers) the development of same.

H. Senior Engineer, Transportation, Bureau of Design Standards and Economic Design Analysis

(1) I determined the status of all Interstate 4R active projects. I identified, set project limits on, estimated and prioritized remaining 4R work on our Interstate system.

(2) I was the lead designer and production manager of several design projects. I was responsible for the job from Level of Action through final phase submission.

(3) I formulated, controlled and established design standards. Also, I revised and/or developed design standards for Federal Certification Acceptance and the Roadway Design Manual.

(4) I prepared a cost estimate for the uncompleted portions of all Interstate routes in the 1983 and 1985 Interstate Cost Estimates.

I. Assistant Engineer, Trans., Bureau of Design Standards and Economic Design Analysis

(1) I prepared contract plans which included field investigation, design and preparation of plans and estimates.

(2) I assisted in the formulation, control and establishment of design standards.

J. Engineering Aide 1, Geometric Design Office

(1) I revised design standards with the latest AASHTO and research developments.

(2) I prepared maintenance work orders which included field investigation, design and preparation of plans and estimates.

(3) I assisted in the route-by-route survey to identify safety hazards on our Interstate

system, then prepared a schedule and estimate of cost for correction of same.

(4) I assisted in the preparation of a cost estimate for the uncompleted portions of all Interstate routes in the 1981 Interstate Cost Estimate.

(5) I assisted the Safety Operation and Review Team in proposing and implementing recommendations to alleviate problems at hazardous locations.

EDUCATION

Degree: Bachelor of Science in Engineering Technology (N.J.I.T.)

Major : Civil Engineering Technology (1985)

Degree: Associate in Applied Science (M.C.C.C.)

Major : Civil Engineering Technology (1978)