

RAJESH PATEL, P.E.

Civil Engineer - Transportation Specialist

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PROFESSIONAL SUMMARY

Licensed Professional Engineer with 8 years of experience in transportation engineering, specializing in roadway design, traffic analysis, and infrastructure improvements. Expertise in utilizing advanced engineering software to develop sustainable transportation solutions while adhering to local, state, and federal regulations. Strong background in project management, construction oversight, and stakeholder communication.

TECHNICAL SKILLS

- Design Software: AutoCAD Civil 3D, MicroStation, GEOPAK
- Analysis Tools: HCS, Synchro, VISSIM, Highway Capacity Software
- Project Management: MS Project, Primavera P6
- Drainage Design: HEC-RAS, StormCAD, HydroCAD
- Geotechnical Analysis: gINT, Slide
- General: GIS, MS Office Suite, Adobe Creative Suite

PROFESSIONAL EXPERIENCE

PROJECT ENGINEER

Metropolitan Engineering Consultants, Atlanta, GA *June 2019 - Present*

- Lead engineer for \$15M urban roadway expansion project, managing design development from concept through construction documents
- Perform complex traffic analyses and simulations for intersection improvements, resulting in 30% reduction in peak hour delays
- Coordinate with multidisciplinary teams including environmental scientists, geotechnical engineers, and landscape architects
- Develop comprehensive cost estimates and project schedules with 95% accuracy
- Supervise 2 design engineers and 3 CAD technicians in the transportation department
- Conduct regular site visits to monitor construction progress and address field modifications
- Present technical information at public meetings and stakeholder consultations
- Ensure compliance with AASHTO standards, state DOT requirements, and local design criteria

CIVIL ENGINEER

City of Atlanta, Department of Transportation, Atlanta, GA *August 2016 - May 2019*

- Reviewed and approved engineering plans for roadway, bridge, and traffic signal projects
- Conducted traffic impact studies for proposed developments within city limits
- Investigated citizen complaints related to transportation infrastructure
- Developed specifications for city infrastructure improvement projects
- Inspected ongoing construction projects to ensure adherence to plans and specifications
- Collaborated with planning department on comprehensive transportation master plan
- Assisted in the implementation of complete streets policy for urban corridors
- Performed pavement condition assessments and developed maintenance recommendations

CIVIL ENGINEER I

State Highway Department, Atlanta, GA *July 2014 - July 2016*

- Assisted in the design of highway rehabilitation and improvement projects
- Created construction drawings using AutoCAD Civil 3D and MicroStation
- Performed traffic counts and compiled data for operational analyses
- Calculated quantities and prepared cost estimates for construction projects
- Conducted field surveys and documented existing conditions
- Prepared technical reports and memoranda for senior management
- Participated in design review meetings with contractors and stakeholders

EDUCATION

MASTER OF SCIENCE IN CIVIL ENGINEERING

Georgia Institute of Technology, Atlanta, GA *2012 - 2014* Specialization: Transportation Systems Engineering GPA: 3.8/4.0

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

University of Georgia, Athens, GA *2008 - 2012* GPA: 3.6/4.0 Dean's List: 6 semesters

PROFESSIONAL CERTIFICATIONS

- Professional Engineer (PE) - State of Georgia

- ASCE Certified Infrastructure Inspector
- OSHA 30-Hour Construction Safety
- Certified Erosion Control Inspector

PROFESSIONAL MEMBERSHIPS

- American Society of Civil Engineers (ASCE)
- Institute of Transportation Engineers (ITE)
- Society of Women Engineers (SWE)
- National Society of Professional Engineers (NSPE)

PROJECT HIGHLIGHTS

- I-85 Corridor Improvement Project - Lead designer for 3.5-mile highway widening
- Peachtree Street Pedestrian Safety Enhancements - Project engineer for urban streetscape redesign
- Hartsfield-Jackson Airport Access Road - Traffic analysis and signal timing optimization
- Downtown Transit Hub - Site design and ADA compliance review

PUBLICATIONS & PRESENTATIONS

- “Integrating Complete Streets Principles in Urban Transportation Design” - ASCE Georgia Conference, 2021
- “Traffic Calming Measures for Neighborhood Safety” - ITE Journal, January 2020
- “Sustainable Stormwater Management in Transportation Projects” - Georgia Engineering Conference, 2018

LANGUAGES

- English (Native)
- Gujarati (Fluent)
- Hindi (Conversational)