

GRADUATE ENGINEER

Summary

Intellectually curious and resourceful *Great interpersonal skills and ability to communicate effectively at all levels within an organization

Experience

03/2014 to Current

Graduate Engineer Company Name 1/4 City , State

- Developed conceptual plans for two intersections near Jersey Shore University Medical Center, based on traffic data, geometric constraints, and roadway design standards.
- Employed knowledge of Microstation, Inroads, Excel, and VBA to efficiently complete miscellaneous tasks, including producing reports, creating visual displays, and generating automated text descriptions.
- Applied vehicle turning software (AutoTurn) to analyze intersection design and geometric layout on various projects.
- Member of the highway design team on I-295 Direct Connection Contract 3 project; developed grading on complex pavement widening sections, revised vertical and horizontal alignments to meet NJDOT standards, modeled highway sections using CAD (Microstation) and design software (Inroads), and generated plan cross sections.
- Coordinated quantity effort across multiple disciplines (Highway, Electrical, Drainage, Utilities) on I-295 Direct Connection Contract 3; used in-house Excel VBA program to collect and organize quantity data, and devised additional VBA macros to optimize the initial setup and printing of quantity calculation sheets.
- Designed horizontal and vertical alignments, superelevation constraints, and guide rail for I-280 Ramp 2P bridge deck replacement project.
- Worked on multiple roadway resurfacing and maintenance projects; identified critical as-built information to present on plans, and developed ADA compliant grading and geometric layout for pedestrian facilities.

07/2012 to 08/2012

Summer Aviation Intern Company Name 1/4 City , State

- Assisted the Port Authority's Manager of Structural Integrity.
- Presented summaries of engineering reports to PA technical and non-technical staff.
- Compiled and organized Safety and Priority Repair data from numerous inspection reports.
- Inspected bridge components alongside members of Port Authority's Engineering Division.
- Created details for the repair of longitudinal cracking along roadway, and the remediation of cracked catch basin, as well as cost estimates.
- Gathered information on tenant employees to be relocated; generated cubicle plan for new tenant building.

Education

Present

Master of Science : Civil Engineering New Jersey Institute of Technology 1/4 City , State Civil Engineering

October 2013

Bachelor of Science : Civil Engineering Rutgers University 1/4 City , State Civil Engineering 3.7/4.0

Achieved passing score on FE/EIT Exam *Relevant Courses: Intro to Transportation, Transportation Planning, Transportation Capstone

Interests

Programming, Reading, Creative Writing, Rock Climbing

Languages

Fluent in Spanish.

Skills

ADA, CAD, CSS, design software, EIT, Excel VBA, HTML, inspection, layout, macros, Excel, Powerpoint, Word, Microstation, producing Python, Safety, Fluent in Spanish, Transportation, Utilities, VBA, visual displays

Additional Information

- Interests: Programming, Reading, Creative Writing, Rock Climbing