

SATYA CHAITANYA GEDELA

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WORK EXPERIENCE

Career Profile

- Traffic Engineer with three years of progressive experience at AECOM on FDOT and Florida's Turnpike Enterprise projects with expertise in Synchro and HCS
- Looking for a role where I can implement my previous experience into new projects and strive for continuous improvement by learning new skills

AECOM

August 2017 – January 2021

Traffic Engineer

- **Marigold Avenue and CR 580 (Cypress Parkway) widening project traffic technical memorandum (TTM), FL.**
Developed existing traffic volumes and analyzed the operational performance of No-Build and Build alternatives using Synchro 11. Prepared technical memorandum to summarize the findings and report figures using Inkscape tool
- **SW 10th street project development and environment (PD&E) study, Florida's Turnpike Enterprise, FL.**
Developed traffic volume spreadsheets and mapped changes in lane geometry figures using Inkscape tool. Analyzed different alternatives using Synchro 11 and HCS
- **Central Florida project traffic analysis report (PTAR) safety benefit analysis, FL.**
Extracted the crash data from the Signal Four Analytics tool and predicted crashes using Highway Safety Manual (HSM) spreadsheet tools. Prepared a safety report and tabulated the findings
- **Master plan update, Sarasota Bradenton international airport, FL.**
Analyzed the circulation of traffic and wait time around the airport. Prepared a report and summarized the findings
- **Complete Streets, FDOT District 2, FL.**
Analyzed the primary measures in FDOT Complete Streets handbook including roadway connectivity. And recommended context classification for state roadways using GIS

Visakhapatnam Port Trust, India

June - July 2013

Summer Intern

- Learned about the construction practices of port structures and maintenance of infrastructure
- Applied knowledge of flexible and rigid pavement and their maintenance

EDUCATION

Texas Tech University, Lubbock, Texas

May 2017

Master of Science in Civil Engineering, Specialization: Transportation Engineering
Graduate Certificate in Construction Engineering and Management

Jawaharlal Nehru Technological University, Kakinada, India

May 2014

Bachelor of Technology in Civil Engineering

SOFTWARE SKILLS

Synchro, HCS, HSM tool, Inkscape, GIS, VISSIM, Micro Station, AutoCAD, GEOPAK, Microsoft Project, Revit, STAAD Pro

RESEARCH

Strengthening and Widening of 2-lane to 4-lane road

January - May 2014

Undergraduate Thesis

- Coordinated with a team of 4 students to create model of existing 2-lane road using AutoCAD and mathematical calculations to represent crust design and estimate the cost of the project
- Calculated the pavement thickness using California Bearing Ratio (CBR) and Indian Roads Congress IRC-37

Professional Societies

- Institute of Transportation Engineers (ITE)