

Raswanth Prasath S V

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SUMMARY

Civil engineering student specializing in transportation engineering with strong skills in designing, modeling, and simulating transportation systems. Experienced in traffic impact studies, data collection, and analysis. Looking for a research opportunity to apply my skills and contribute to traffic and transportation projects in a dynamic, real-world setting.

TECHNICAL SKILLS

Software: AutoCAD, ArcGIS Pro, QGIS, Civil 3D, AutoTurn.

Traffic Analysis/Simulation: VISSIM, Synchro, Google Earth Pro.

Programming: Python, PyQGIS, C, C++.

Other: Microsoft Office, Blender, Figma, Adobe Creative Suite.

EXPERIENCE

School of Earth and Space Exploration, Tempe, Arizona: Graduate Research Assistant Jan 2025 - Present

- Working on Python-based QGIS plugin to visualize uncertainty in fault line mapping.
- Integrate geospatial datasets (GIS) and remote sensing data into analytical workflows for tectonic hazard analysis
- Designing an intuitive GUI with dynamic tooltips to streamline fault ranking workflows for geologists.

Concept Dash, Toronto, Ontario: Traffic and Transportation Engineer Oct 2023 - Jul 2024

- Conducted traffic impact study, transportation demand management, and parking analysis for various projects.
- Utilized Synchro models to analyze traffic patterns and prepared professional reports.
- Formulated spreadsheets in MS Excel, interpreted data and graphs, and determined traffic patterns and transportation needs based on Synchro results to provide feasible mitigations.

Centre of Excellence for Road Safety (CoERS), IIT Madras: Project Intern Dec 2022 - Jun 2023

- Conducted spot speed studies at 17 locations in Chennai City to assess the effectiveness of various vertical deflection-type traffic calming measures on arterial roads.
- Collected and analyzed data over 3,000 vehicles to assess the impact of traffic calming measures, including road humps, speed tables, and transverse bar markings, on vehicular speeds and road safety.
- Provided valuable insights and recommendations based on data analysis, contributing to enhanced road safety

EDUCATION

Arizona State University, Tempe, AZ Aug 2024 - May 2026

Master of Science, Civil, Environmental & Sustainable Engineering, GPA: 3.56/4.00

Coursework: Traffic Modeling and Simulation, Transportation Planning, Pavement Design, Traffic Flow Theory, Highway Geometric Design, Activity-Travel Behavior Model

National Institute of Technology, Tiruchirappalli Aug 2019 - May 2023

Bachelor of Technology, Civil Engineering, GPA: 3.36/4.00

PROJECTS

Collision Avoidance System Using Reinforcement Learning Nov 2022- Feb 2023

- Implemented Reinforcement Learning algorithms to enhance the safety of autonomous vehicles.
- Conducted experiments with a multi-agent setup to assess the model's performance to different conditions.
- Presented the research findings at the 4th International Conference on Communication and Intelligent Systems.

Traffic Data Collection and Analysis for Elevated Corridor Planning May 2022- Jun 2022

- Conducted data collection activities along an extensive traffic route encompassing multiple junctions in Trichy.
- Collaboratively surveyed six Junctions with a 10-member team for comprehensive data collection and analysis.
- Analyzed traffic volumes to identify peak hours and congestion patterns.

LEADERSHIP EXPERIENCE

Pixelbug, NIT, Trichy: Treasurer Feb 2022 - May 2023

Graphique, NIT, Trichy: Senior Graphic Designer Aug 2020 - May 2022