

# 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

<b>School of Earth and Space Exploration, Tempe, Arizona: Graduate Research Assistant</b>	Jan 2025 - Present
<ul style="list-style-type: none"><li>Working on Python-based QGIS plugin to visualize uncertainty in fault line mapping.</li><li>Integrate geospatial datasets (GIS) and remote sensing data into analytical workflows for tectonic hazard analysis</li><li>Designing an intuitive GUI with dynamic tooltips to streamline fault ranking workflows for geologists.</li></ul>	
<b>Concept Dash, Toronto, Ontario: Traffic and Transportation Engineer</b>	Oct 2023 - Jul 2024
<ul style="list-style-type: none"><li>Conducted traffic impact study, transportation demand management, and parking analysis for various projects.</li><li>Utilized Synchro models to analyze traffic patterns and prepared professional reports.</li><li>Formulated spreadsheets in MS Excel, interpreted data and graphs, and determined traffic patterns and transportation needs based on Synchro results to provide feasible mitigations.</li></ul>	
<b>Centre of Excellence for Road Safety (CoERS), IIT Madras: Project Intern</b>	Dec 2022 - Jun 2023
<ul style="list-style-type: none"><li>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.</li><li>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.</li><li>Provided valuable insights and recommendations based on data analysis, contributing to enhanced road safety</li></ul>	

## EDUCATION

<b>Arizona State University, Tempe, AZ</b>	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	
<b>National Institute of Technology, Tiruchirappalli</b>	Aug 2019 - May 2023
Bachelor of Technology, Civil Engineering, GPA: 3.36/4.00	

## PROJECTS

<b>Collision Avoidance System Using Reinforcement Learning</b>	Nov 2022- Feb 2023
<ul style="list-style-type: none"><li>Implemented Reinforcement Learning algorithms to enhance the safety of autonomous vehicles.</li><li>Conducted experiments with a multi-agent setup to assess the model's performance to different conditions.</li><li>Presented the research findings at the 4th International Conference on Communication and Intelligent Systems.</li></ul>	
<b>Traffic Data Collection and Analysis for Elevated Corridor Planning</b>	May 2022- Jun 2022
<ul style="list-style-type: none"><li>Conducted data collection activities along an extensive traffic route encompassing multiple junctions in Trichy.</li><li>Collaboratively surveyed six Junctions with a 10-member team for comprehensive data collection and analysis.</li><li>Analyzed traffic volumes to identify peak hours and congestion patterns.</li></ul>	

## LEADERSHIP EXPERIENCE

<b>Pixelbug, NIT, Trichy: Treasurer</b>	Feb 2022 - May 2023
<b>Graphique, NIT, Trichy: Senior Graphic Designer</b>	Aug 2020 - May 2022