**UTSAV DOMADIA**

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**EXECUTIVE SUMMARY**

**Civil Engineering Graduate Student** with a focus in Transportation Engineering.Highly organized, quick learner with strong communication skills. Enjoys problem-solving and interested in traffic engineering, roadway design, transportation planning and intelligent transportation systems (ITS).

**EDUCATION**

**Master of Civil Engineering (Transportation).** University of Texas at Arlington, USA **Aug 2018 – May 2020**

* GPA in Major: **3.5,** Graduation in **May2020**

**Bachelor of Civil Engineering.** Gujarat Technological University (Ahmedabad, India) **Aug 2014 – May 2018**

* GPA in Major (*20* Courses): **3.3**, Overall GPA (*45* Courses): **3.2**

**TECHNICAL SKILLS**

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| --- | --- | --- | --- |
| * SYNCHRO | * ArcGIS | * Microsoft Office | * Adobe Photoshop |
| * PTV VISSIM | * AutoCAD/ Civil 3D | * R Studio | * MicroStation |
| * HCS7 | * TransCAD | * Python | * MEPDG |

**PROFESSIONAL EXPERIENCE**

**Department of Civil Engineering – The University of Texas at Arlington**

***Graduate Teaching Assistant* Jan 2020 – Present**

* Tutored group of students for on-field survey using Auto Level and Total Station**,** Conducted lab sessions for computer modelling using AutoCAD Civil 3D, Evaluated class and lab assignments

***Graduate Research Assistant* Aug 2019 – Jan 2020**

* Assisted as a graduate researcher in a transportation division of a multidisciplinary project costing $120K and funded by USDOT
* Performed Network Analysis in ArcGIS to find the shortest path among 1100+ demand locations and 2 supply locations
* Analyzed transportation route and facility location optimization model using Gurobi – Python interface

**DeShazo Group, Inc. (Dallas, TX)**

***Traffic Engineering Intern* May 2019 – Aug 2019**

* Assisted in 20+ Traffic Impact Analysis projects by creating CAD exhibits, traffic volume analysis in Excel and Level of Service analysis in Synchro
* Analyzed a transit route optimization for all current and future routes originating and terminating in Downtown Dallas
* Performed parking and vehicle occupancy surveys andanalyzed parking demand and supply data in order to provide the parking study

**RELEVANT PROJECTS**

**Travel Demand Forecasting for City of Arlington Aug 2018 – Dec 2018**

Analyzed travel demand and socio-economic household data of Arlington for 2010 and 2040 (forecasted) in TransCAD. Generated maps from analyzed data which includes population density, income variation and Volume Over Capacity (VOC) ratio for given TAZs. Suggested two alternative solutions for an intersection with a high VOC ratio.

**Traffic and Parking Study of Station Road, Valsad June 2017 – May 2018**

Led the project team, collected required secondary data (traffic and crash data, multi-modal commuter data, master plan) from public authority, conducted On-street parking survey within domain area and managed 25 enumerators (volunteers) for 3 consecutive weekdays from 8 AM through 8 PM, gathered all survey data from 600 survey sheets, analyzed the survey data in spreadsheets, proposed various alternative solutions, drafted parking layouts and related road cross-sections in AutoCAD, prepared a detailed project report and submitted to City of Valsad.

**STUDENT LIFE & VOLUNTEERISM**

**Paper Presentation April, Aug 2018 & Nov 2019**

Presented a project work of *Traffic and Parking study of Station Road, Valsad* at Annual Project Fair of the university, 3rd National Conference on Recent Advances in Traffic Engineering (RATE) at Surat, India and 5th International Conference on Transportation and Health (ICTH) at Melbourne, Australia

**Technical Competition (Traffic-O-Mania) March 2018**

Planned a model of the road and light rail network within 3 hours of the time limit which has minimum congestion points in a zone and stood out the winner among 45 teams from different universities at the national technical festival of Gujarat Technological University, Ahmedabad.

**UTA Student Chapters Aug 2018 - present**

Institute of Transportation Engineers (ITE), American Society of Civil Engineers (ASCE), Center for Transportation, Equity, Decisions and Dollars (CTEDD), Student Planning Association (SPA)