

Vishwas Reddy Mothukpally

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A transportation engineer with project experience is working for City of Philadelphia and Pennsylvania Department of Transportation. Leading traffic Microsimulation projects, experienced in On-field Traffic observations and data collections and assisting with engineering CAD design projects. Good knowledge in report writing and assisting with preparing presentations for client status meetings

WORK EXPERIENCE

Transportation Engineer

08/2017 – present

– Boles, Smyth Associates, Civil Engineering Consulting Firm, Philadelphia, PA

- Developing and analyses of microscopic traffic models using Synchro 10/Sim Traffic
- Data entry for quantities tabulation and project cost estimates using PennDOT AutoTAB web based application
- Preparing utility relocation plans and coordinating with utility companies
- Performing Crash data analysis and providing recommendations in Crash report
- Good knowledge in layer controlling and developing drawing figures using AutoCAD Civil 3D 2017
- Performing traffic signal warrant analysis, turn lane analysis and using results in Roadway plans

Transportation Modeling and Analysis intern

01/2017 – 07/2017

– Delaware Valley Regional Planning Commission, PA (Metropolitan Planning Organization)

- Forecasting zonal household population data to future years using R programming language
- Air quality planning for 9 counties in Pennsylvania and New Jersey states.
- Vehicle Mile Travelled analysis with integrated use of ArcGIS and PTV Visum
- Import traffic counts data and perform micro simulation using Vissim
- Vehicle speeds data collection for Pottstown bridge feasibility analysis

Systems Administrator – Biology, Utah State University

08/2015-12/2016

- Monitoring, updating, repairing hardware, setup security services for all computers in Biology department.

EDUCATION

Master's Degree – Transportation Systems Engineering

December 2016

Utah State University, Logan UT

GPA 3.33

Bachelor's Degree – Civil Engineering

May 2014

SRM University, India (ABET- accredited)

GPA 3.72

Software Skills

PTV Visum 12.5

AutoCAD Civil 3D 2017

ArcGIS 10.3.1

R Studio

Synchro 10/Sim Traffic

Python

VISSIM

Microsoft Office 2016

Adobe Creative Suite

MySQL

Related Coursework at Utah State University-

Transportation Network Analysis

Geometric Design of Highways

Transportation Data and Safety

GIS of Civil Engineers

Transportation Systems Analysis

Advanced GIS and Spatial Analysis

Urban and Regional Transportation Planning

Hydro Informatics

Traffic Engineering

Earthquake Engineering

Coursework Projects at Utah State University

Designed one-mile long urban highway for Cedar City, Utah

Optimization of bus and rail routes in transit corridor

Salt Lake County Crash data analysis 2009-2010

Professional Memberships

Affiliate member of American Society of Civil Engineers (ASCE)