

SIVA SOORYAA MURUGA THAMBIRAN

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EDUCATION

New York University, Tandon School of Engineering, New York, NY
Bachelor of Science, Civil and Urban Engineering

December 2020

EXPERIENCE

Intern, **C2SMART Center**, Brooklyn, New York

February 2020-present

- **Advanced** strategic initiatives and projects by providing project management and research support. **Conducted** research and supported preparation of key deliverables including project briefs and interim reports
- **Assisted** research staff in identifying key data sources; **Supported** special projects- including compiling, organizing and updating project papers and reports for use by teams across the center
- **Performed** literature reviews and **synthesized** findings for use in C2SMART research products

Intern, **New York State Department of Transportation**, Westchester, New York

July-August 2019

- **Supervised** in building a Traffic Detector system, integrating existing loop base detectors stations in the region into the existing ATMS (Foundation) system by collecting, reviewing and organizing information in the inventory data base using MatLAB and GIS resulting in a 34% optimization rate
- **Expedited** in design and implementation of a pilot project for a Parking information sharing system using AutoCAD and Python reducing parking congestion by 40%
- **Facilitated** in the formation of the first ITS lab at the Traffic Management Center; it would be completed in 2022

Intern, **NITI Aayog** - National Institute for Transforming India, New Delhi, India

July-August 2018

- **Prepared** report and expanded it into a scientific paper on importance of bringing in EV-based automobile force to India and the need to secure raw material supplies for manufacturing electric vehicles and related components in India
- **Recommended an action plan** outlining six steps which, if followed and implemented by the Indian government would make sure the raw materials available on a continuous manner to meet India's growing demand for lithium
- **Contributed to the NITI Aayog blog** by co-writing two articles

ACADEMIC PROJECTS

Parking Layout Project

December 2017

- **Prepared calculations and plans** for the **design of highways and streets**, including roadway alignments and profiles, paving and grading; researched zoning regulations, zoning proposals to understand building modelling and configurations

TRTown Project

November 2017

- **Traffic impact study** of TRTown. **Collected, reviewed and analyzed** traffic data to identify concerns, recommended corrective action and **traffic mitigation measures**. Analyzed zoning and urban design studies to help in developing measures

LEADERSHIP POSITIONS

- **Secretary**, Institute of Transport Engineers (ITE) and ITS Society NYU Student Chapter, 2018-20
- **Co-organizer** of Sustainability Summit 2017-2020 in NYU
- **Treasurer** for Earth Matters: oldest environmental club at NYU, 2018-20

ACHIEVEMENTS/EXTRA CURRICULAR ACTIVITIES

- Vertically Integrated Project: Member of '**Smart City**' **VIP program** where as part of a team, designed, created, and tested an innovative technology with smart cities applications (autonomous drone)
- Leadership Summit: Attended the **2018 ITE Student Leadership Summit** Also **secured second prize in Traffic Bowl**
- Blog: **Launched** a blog "**Infrainfi**" to share, analyze and engage in discussions about latest infrastructure projects
- **Employee of the Semester** at NYU Athletics Office for Fall 2019

COMMUNITY SERVICE

- **Mentor** at Read Ahead, an organization to develop socio-emotional skills of primary school children
- **Expanded club services** of 'Two Birds One Stone' to include more dining halls to contribute leftover food

SKILLS

Technical: Python, Microsoft Office, HTML, MatLAB, ArcGIS, Revit, AutoCAD

Language: Tamil, English, Hindi, Written French, Written Spanish

Certification: OSHA 10 Hour Site Safety