

# ROBERT BOVE – E.I.T

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## CERTIFICATION

Engineer in Training (EIT), Certificate Number 092387 – Issued Dec 22, 2015

## CIVIL ENGINEERING EXPERIENCE

### Design Engineer, RMS Engineering

Huntington, New York, September 2015 – January 2018

- Conducted site investigations to determine traffic flow, identify existing traffic control devices and perform data collection
- Performed intersection capacity analysis utilizing the methodology presented within the Highway Capacity Manual 6<sup>th</sup> Edition (HCM 6) with HCS and Synchro
- Estimated traffic and parking generation of proposed projects utilizing industry standard data provided by the Institute of Transportation Engineers (ITE) in conjunction with data collected during field observations
- Produced detailed technical reports and exhibits including traffic impact studies, parking aerial exhibits, and traffic figures to be presented at public hearings
- Utilized accident data provided by NYSDOT to prepare comprehensive accident reports including mitigation measures and collision diagrams
- Conducted signal warrant analyses in accordance with the procedure illustrated in the latest edition of the Manual of Uniform Traffic Control Devices (MUTCD)
- Designed conceptual site plans, work zone traffic control plans as well as drainage and grading plans using AutoCAD

### Civil Engineering Intern, Township Engineer's Office

Upper Darby, Pennsylvania, January 2015 – May 2015

- Conducted pavement inspections by measuring roadway dimensions, identifying damaged sections and determining the necessity of mitigation measures
- Assisted with final calculations and wrote technical memos summarizing results and conclusions
- Identified the appropriate locations to take pavement core samples in order to analyze existing pavement conditions

## EDUCATION

### Bachelor of Science in Civil Engineering, May 2015

Villanova University, Villanova, Pennsylvania

## RESEARCH EXPERIENCE

### Capstone Senior Design Project: National Highway System (NHS) Connector for Tioga Marine Terminal

Villanova University, Pennsylvania, January 2015 – May 2015

- Remediated issues associated with the highway connectors at Tioga Marine Terminal by creating design alternatives, such as signage and pavement issues, stormwater recommendations, and a work zone plan with the costs and qualitative benefits associated with each

### Effect of Increased Bus Weights on 69<sup>th</sup> Street Bus Stop Pavement

Upper Darby, Pennsylvania, January 2015 – May 2015

- Recorded traffic counts, classified heavy vehicle distributions, and analyzed pavement core samples to discern existing pavement conditions
- Used AASHTOWare Pavement ME Design software to recommend best available pavement design repair alternatives based on predicted success and cost to implement

### Evaluation of Corrugated HDPE Pipes Manufactured with Recycled Content underneath Railroads

Villanova University, Pennsylvania, January 2015 – May 2015

- Ran tensile strength tests to evaluate the material qualities of plastic pipe made with recycled, 50/50, and virgin materials, as part of the National Cooperative Highway Research Program project 04-39

### Research Assistant, Stony Brook University, Mechanical Engineering Department

Stony Brook, New York, June 2009 – August 2010

- Assisted two graduate engineering students conduct research by collecting current, voltage, and resistance experimental data with MATLAB to create outcome graphs and analyses

## PROFESSIONAL ORGANIZATION MEMBERSHIPS

American Society of Civil Engineers (ASCE), August 2012 – Present

Institute of Transportation Engineers (ITE), April 2016 – Present

## SKILLS

Drafting Software: AutoCAD

Analysis Software: HCS, Synchro, AASHTOWare Pavement ME Design

Computer Applications: Microsoft Word, Excel, PowerPoint, Access, Outlook