Sushruth Keval

Associate II, E.I.T.

Mr. Keval assists our engineers and architects with investigating existing conditions, preparing drawings to illustrate design solutions, and construction administration for structural and exterior building façade components, including meeting minutes, field observation reports, and review of project submittals. Mr. Keval also aids in building envelope evaluations, research and condition assessments of architectural and structural components, and investigation of damage to structures from accidents, catastrophes, construction defects and other adverse conditions. His project experience includes façade and parking garage inspections, litigation and insurance claim services, non-destructive testing methods, building energy assessment, public and residential properties and insurance.

Representative Project Experience

Building Envelope Commissioning, Investigation and Repair

- Provide Façade Inspection Safety Program (FISP) inspections, report and repair recommendation drawings for high and low rise buildings.
- Performed site investigation through close up inspections and balcony structural assessment, coordinated, directed and witnessed probes at several locations and recommended repairs.
- Preparation of building enclosure, waterproofing and fenestration drawings for the renovation of a historic townhouse.
    - Kips Bay Court (8 buildings):
    - Peter Cooper Village (3 buildings)
    - Stuyvesant Town (12 buildings)
    - 80 floor high rise buildings in Financial District, Manhattan
    - Warren Street Condominium, Brooklyn
    - Long Island University, Brooklyn-Roof replacement
    - Surveying and Non-Destructive Testing
- Conducted spray water testing and probe review at about 30 public schools for the New York City School Construction Authority.
- Conducted Ground Penetrating Radar (GPR) and Metal Detector scans to assess the structural stability of load bearing members.
- Assisted with proof load testing at a portion of the roof according to specifications prepared by EOR (NYCSCA).
- Assisted with parapet tilt monitoring using modern sensor techniques (NYCSCA).
- Assisted the unmanned aircraft system (drone) pilot in surveying condition of residential buildings.

Structural Assessment and Design

- Evaluation of cracking, spalling, and deterioration of concrete structures.
- Design and construction administration of two buildings at Peter Cooper Village.
- Structural analysis of as-built conditions that differed from the original design.
- Conducted fence and balcony railing pull tests and performed structural calculations based on ASTM standards.

Academic Credentials
Master of Science in Mechanical Engineering, Columbia University, New York, NY

Licensure & Certifications
Engineer Intern
(Engineer-in-Training)

OSHA 10

OSHA 30

Site Safety Training (SST)

16-Hr Suspended Scaffold

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- Performed structural assessment and prepared detailed local law reports for numerous parking garages.

Publications

- Keval, S., Rayapureddi, R., Gurajala, J., Raghavan, V., & Gupta, A. (2021). **Revamping the vehicle protection system using next-generation car bumper to mitigate pedestrian fatality**. International Journal of Crashworthiness, 27(6), 1770–1789.

Conference

- Keval, S., Rayapureddi, R., & Gupta, A.. "**Suitability of functionally graded material in solar thermal system**." International Conference on Recent Advancement in Applied Science and Engineering, December 26– 27, 2020

Patents

- Keval, S., Rayapureddi, R., Gurajala, J., Raghavan, V., & Gupta, A." **Pedestrian protection assembly for an automotive vehicle**." Indian Patent No. 502353, Publication No. 19/2021, Application no. 202011033203
- Keval, S., Rayapureddi, R., Sehgal, V., & Gupta, A."**A Self-Sustaining Hybrid Solar Water Heater With Panel Protection and an Operation Method Thereof**" Indian Patent Publication No. 12/2023, Application no. 202111059714A