

### Thai X. Dam | Associate II



#### EDUCATION

- National University of Civil Engineering - Vietnam
  - Bachelor of Science, Civil Engineering, 2005
- SIIT, Thammasat University - Bangkok, Thailand
  - Master of Science, Structural Engineering, 2010
- University of Michigan - Ann Arbor, Michigan
  - Doctor of Philosophy, Structural Engineering, 2016

#### PRACTICE AREAS

- Repair and Rehabilitation
- Failure/Damage Investigations
- Structural Analysis
- Concrete Structures
- Steel Structures
- Wood Structures
- Nondestructive Evaluation
- Facade Assessment

#### PROFESSIONAL AFFILIATIONS

- American Concrete Institute
- International Concrete Repair Institute

#### TECHNICAL COMMITTEES

- ACI 445C-Punching Shear
- ACI 352 - Joints and Connections

#### CONTACT

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#### EXPERIENCE

Thai Dam joined WJE in 2016 and has since been involved with numerous projects involving both structural engineering and architecture. His typical work has included investigation, analysis, and nondestructive evaluation of existing and damaged concrete, steel, wood, and masonry structures. He has also been responsible for development of repair and rehabilitation documents, as well as conducted construction supervision. Dr. Dam has published articles on shear strength of reinforced concrete structures, nonlinear finite element analysis, and structural strengthening and rehabilitation.

Prior to joining WJE, Dr. Dam was a structural engineer at Vinaconex R&D in Ha Noi, Vietnam, where he conducted structural analysis and designed several high-rise reinforced concrete buildings.

#### REPRESENTATIVE PROJECTS

##### Repair and Rehabilitation

- 1921 East Ferry Building - Detroit, MI: Structural assessment and analysis of ten-floor reinforced concrete flat plate structure
- Beaumont GP Parking Structure - Grosse Pointe, MI: Full depth shear repair design for prestressed double-tee beams
- Advance Building Parking Structure - Southfield, MI: Structural assessment of prestressed concrete parking structure and Cazaly hanger
- Maccabees Plaza - Southfield, MI: Delamination repair design for reinforced concrete waffle slabs
- McNamara Building - Detroit, MI: Structural evaluation and renovation of reinforced concrete structure
- Starkweather Elementary School - Plymouth, MI: Structural assessment and renovation of 1920s cast-in-place concrete floor and masonry structure
- Large Regional Hospital Facility - Wyoming, MI: Structural Evaluation of open-web steel joist structure
- Consumers Energy JHC - Bay City, MI: Structural evaluation of steel trestle
- Henry Ford Medical Center - Sterling Heights, MI: Evaluation of open-web steel joist structure

##### Failure/Damage Investigations

- Galleria Officentre - Southfield, MI: Structural investigation of damaged reinforced concrete slab
- Parkside Apartments - Toledo, MI: Structural investigation and repair of fire damage wood truss

##### Structural Analysis

- Baltimore Parking Structure Plastic Analysis - Detroit, MI: Nonlinear finite element analysis of unbonded post-tensioned slabs
- University of Michigan Light Poles - Ann Arbor, MI: Fatigue analysis of high-mast lighting towers
- Detroit Yacht Club - Detroit, MI: Assessment, analysis, and repair of precast reinforced concrete channel slab structure

##### Nondestructive Evaluation

- General Motors Tech Center, Warren, MI: Nondestructive assessment of cable stairs using vibration analysis
- Masonic Pathways - Lansing, MI: Nondestructive assessment of reinforced concrete structure using ground-penetrating radar

##### Facade Assessment

- Confidential Arctic Animal Conservation Center - MI: Water infiltration investigation
- Marquette Building - Detroit, MI: Facade assessment and repair
- Large Regional Hospital Facility - Wyoming, MI: Exterior masonry investigation
- Fox Run Retirement - Novi, MI: Water infiltration testing
- Toyota Research and Development Office - Saline, MI: Water infiltration testing