



## Aldo De La Haza

### Project Manager

#### Department

Engineering Services

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#### Locations

Chicago, IL

## Biography

Aldo joined YA Engineering Services as a Project Manager in 2020 and brings over 30 years of experience in forensic investigations of existing structures, specializing in nondestructive testing/evaluation (NDT/NDE) techniques. He has applied NDT methods to solve unique concrete-related problems on hundreds of investigative projects including bridges, facades, structural collapses, criminal forensic investigations, historic preservation projects and more.

Aldo has extensive experience in both domestic and international projects. Throughout his career, he has worked closely with federal agencies and equipment manufacturers developing NDT methods including the Federal Highway Administration (FHWA) testing laboratory in McLean, Virginia; the Federal Institute for Material Testing and Research (BAM) in Berlin, Germany; Acoustic Control Systems (ACS) in Moscow, Russia; and Utsi Electronics in Cambridge, UK. He is experienced with multiple NDT methods including ultrasonic shear wave testing (USWT), impact-echo (IE), impulse response method (IRM), ground penetrating radar (GPR), infrared thermography (IR), ultrasonic pulse velocity (UPV), pile integrity testing (PIT), and half-cell potential (HCP).

Aldo has published numerous technical papers related to the subject of nondestructive testing of concrete structures. He has also presented at technical conferences and seminars nationally and internationally, including, South Korea, China, United Kingdom, Italy, Denmark, Germany, Russia, Ukraine, Poland, Mexico, Canada, Chile and Peru.

## Representative Consulting Assignments

- KHRC - Korean High Speed Rail System | Seoul-Pusan, South Korea | Nondestructive investigation of bridges, tunnels and embankments for 412 km long high-speed rail line.
- Montreal Olympic Stadium | Montreal, Canada | Nondestructive investigation of a post-tensioned concrete structural frame.
- NDE Forbidden City | Beijing, China | Nondestructive evaluations of several ancient structures to determine in-situ material properties.
- Copiapo Gold Mine | Copiapo, Chile | Nondestructive investigation of various concrete structures to determine structural integrity.
- KTM Komuter Metro System | Kuala Lumpur, Malaysia | Nondestructive evaluation of subway concrete retaining walls to determine structural integrity.
- CTA Dan Ryan Track Renewal Red Line Project | Chicago, IL | Nondestructive testing of track ballast using LiDAR and GPR test methods.
- Twin Towers Ground Zero | New York, NY | Condition assessment of remaining damaged buildings following 2001 collapse of World Trade Center Towers.
- Miami, International Airport People Mover | Miami, FL | Nondestructive testing of concrete diaphragms to determine structural integrity.

## Professional Experience

- 2020 - Current | Project Manager | YA Engineering Services, LLC
- 2020 - 2020 | Vice President of Technical Services | uGRIDD Corporation
- 2009 - 2020 | Principal and Manager of NDT Services | Dynasty Group, Inc.
- 1989 - 2009 | Associate Principal | Wiss, Janney, Elstner Associates, Inc.

## Area of Practice

- Damage Assessment
- Failure Analysis
- Litigation Support
- Non-Destructive Testing

## Publications and Presentations

- De La Haza, A.O., Nondestructive Testing of the Seattle Kingdome Concrete Dome., American Concrete Institute (ACI) 1995 Fall Convention (November 5-10, 1995.), Montreal Quebec, Canada
- De La Haza, A.O, Samokrutov, A, Germann Petersen, C, Engineering Technics Press Structural Faults 2008, 12th International Conference and Exhibition (June 10-12), Three Dimensional Imaging of Concrete Structures Using Ultrasonic Shear Waves., 0-947664-63-5
- De La Haza, A.O, Samokrutov, A, Samokrutov, P, Assessment of Concrete Structures using the MIRA and Eyecon Ultrasonic Shear Wave Devices and the SAFT-C Image Reconstruction Technique., Construction and Building Materials, 38, 1276-1291
- De La Haza, A.O, Tarussov, A, Vandry, M, Condition Assessment of Concrete Structures Using a New Analysis Method: Ground-Penetrating Radar Computer-Assisted Visual Interpretation., Construction and Building Materials, 38, 1246-1254

## Education

- Illinois Institute of Technology - B.S. - Civil/Structural Engineering - Chicago - Illinois

## Affiliations

- American Concrete Institute (ACI) Committee 228 - Nondestructive Testing of Concrete
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