



REGISTRATIONS

- Puerto Rico P.E. License no. 18680

EDUCATION

Polytechnic University of Puerto Rico

B.S. Civil Engineering, 1997

PRACTICE AREAS

- Concrete Quality Control
- Structural Assessment and Evaluation
- Repair and Remediation
- Destructive and Nondestructive Testing
- Project Management
- Litigation Support

PROFESSIONAL AFFILIATIONS

- American Concrete Institute (ACI)
 - ACI PR Chapter Past President
 - ACI Committee 211: Proportioning Concrete Mixtures
 - ACI Committee 237: Self Consolidating Concrete
 - ACI Committee 305: Hot Weather Concreting
- ASTM International
 - ASTM Sub-Committee 9.40: Ready Mix Concrete
 - ASTM Sub-Committee 9.60: Testing
 - Fresh Concrete
 - ASTM Sub-Committee 9.61: Testing for Strength
 - ASTM Sub-Committee 9.64: Non Destructive Testing

EXPERIENCE

Fernando Buxó works as General Manager with Carrasquillo E&R Services. He specializes in concrete quality control, forensic investigation, structural evaluation, strengthening and repair, non-destructive testing, among others.

Fernando has performed structural investigations related to design and construction defects, including condition assessments, concrete analysis, design, and implementation of repairs.

Fernando Buxó leads the CERS team in providing customers services with concrete repair, maintenance, and remediation to extend structure's service life including residential and commercial high-rise buildings, transportation and airport infrastructure, industrial floors, port facilities, water treatment plants, and dams.

Fernando oversees repair operations at CERS with the use of the latest technologies in materials and equipment including, among others, ultra-high pressure concrete hydro demolition, high pressure injection of cracks, repair resins and mortars, corrosion protection including galvanic, corrosion inhibitors, protective membranes, in addition to structural strengthening using FRP, section enlargement, and the installation of steel elements.

Fernando has conducted several research and development programs for existing and new technology construction materials products.

SELECTED PROJECTS

- Panama Metro Train Line 1 - Forensic Evaluation
- Tocumen International Airport – Runway Repair, Panama
- Panama Pacifico Industrial Floors Design, QC and Repair, Panama
- Las Americas Bridge – Condition Survey and Repair Design, Panama
- Wastewater Treatment Plant – Panama City – Forensic evaluation and concrete repair.
- Minera Panamá – Cascal Bridge, Forensic Investigation
- Granelera Bahía Las Minas Port - Structural Evaluation, Underwater Investigation.
- Diageo's Captain Morgan Rum Distillery, St. Croix USVI – Concrete QC
- National Guard Training Center, St. Croix USVI – Pavement Design
- Necker Island, BVI Concrete QC

Nondestructive Testing

- Concrete Maturity and Temperature Monitoring
- Half-Cell corrosion potential
- Ultrasonic tomography
- Floor surface profile measurements

CERTIFICATIONS

Concrete Testing

- ACI Certifications Approved Examiner
- ACI Concrete Flatwork Technician: Industrial and Commercial
- ICRI Slab Moisture Testing Technician

CONTACT INFO

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Personnel Qualifications

Fernando I. Buxó, BSCE, P.E. | General Manager

CARRASQUILLO ENGINEERING AND STRUCTURAL REPAIR SERVICES

MATERIALS, CONSTRUCTION, STRUCTURAL CONSULTANTS AND REPAIR SERVICES

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