



REGISTRATIONS

- Puerto Rico, EIT
- License No. 25588

EDUCATION

**University of Puerto Rico,
Mayagüez Campus**

B.S. Civil Engineering, 2012

M.S. Structural Engineering 2017

PRACTICE AREAS

- Structural Assessment and Evaluation
- Structural Analysis and Design
- Project Management
- Owner's Representation

PROFESSIONAL AFFILIATIONS

- Professional College of Engineers and Land Surveyors of Puerto Rico (CIAPR)
- Civil Engineers Institute of Puerto Rico (IIC)

EXPERIENCE

Manuel joined CESG in January 2018. At the firm he has already participated in multiple projects mostly revolving around project management of recovery efforts after Hurricane Maria. He has been involved in temporary and permanent roof waterproofing, sanitization of water damaged structures and reconstruction of damaged structures. Manuel has worked on structural assessments, analysis and design of damaged steel structures. He has also been a part of developing RFPs for bid for both design and construction projects. Manuel has served as the client's representative in the handling of insurance claims.

Manuel recently completed his Master's Degree in Structural Engineering. During his graduate studies he worked as a TA for the Civil Engineering Materials Laboratory. He also researched the use of fly ash as an alternative to cement for pervious concrete applications. His Mater Thesis researched the seismic resonance vulnerability of hospitals in PR.

Prior to joining CESG, Manuel worked as a Technology Consultant for 2.5 years. Out of Boston, MA, Manuel traveled on a regularly to client sites throughout the United States. He quickly learned the technical skills for his roles in supply chain management and data migration. He had daily client interaction and collaboration with project leadership. This experience helped him develop into a well-rounded individual with interest in team collaboration and leadership opportunities.

SELECTED PROJECTS

Project Management

- Roof waterproofing of storage warehouses, administrative and operation offices and tourism buildings. Cataño, PR.
- Sanitization, remediation and reconstruction of water damaged interiors in administrative and operation buildings in Cataño, PR.
- Prepared RFP documents for contractor bidding reconstruction and remodeling project. Cataño, PR
- Reconstruction and remodeling of the two entrance guardhouses. Cataño, PR.
- Site planning projects around landscaping, painting and general facilities maintenance. Cataño, PR.

Structural assessment

- Evaluated and recorded damages for 7 damaged steel structures. Cataño, PR.
- Assessed the existing condition of a HVAC system steel catwalk. Guaynabo, PR.

Structural analysis and design

- Completed wind analysis on existing damaged steel structures and proposed fix design. Cataño, PR.
- Design a roof access catwalk to provide maintenance to multiple HVAC systems in a safe and comfortable way. Guaynabo, PR.

CONTACT INFO

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