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Certifications

Autodesk Civil 3D 2020
Essential Training

AutoCAD Civil 3D: Designing
Residential Projects

AutoCAD Civil 3D: Pressure
Pipe Design

AutoCAD Civil 3D: Designing
Gravity Pipe Systems

Civil 3D: Basic Roadway
Design

AutoCAD Civil 3D: Site
Design

AutoCAD Civil 3D:
Topographic and Boundary
Survey

AutoCAD Civil 3D: Plan
Production

AutoCAD 2020 Essential
Training

AutoCAD: Construction
Drawings

Revit 2020: Essential
Training for Structure
(Metric)

Revit 2020: Essential
Training for MEP (Metric)

Revit 2020: Essential
Training for Architecture
(Metric)

Jorge A. Santana Aquino MEng EIT

Civil Engineer/Construction Manager

Summary

Civil Engineer with more than eight years of experience in the fields of residential projects. Working for FEMA, assisted state and local municipalities in developing grant applications for Federal Public Assistance funding for the repair of their infrastructure damaged by natural or man-made disasters. Experience in project management, supervision, contracts, payrolls, scheduling, sub-contractor's management, project delivery and OSHA compliance execution for various complex projects. Also includes work in Construction Management, Engineering Design, CAD Designer, and Site Supervisor. Knowledgeable in construction means and methods for civil and structural constructions above or below the ground. Applies accepted principles, codes, and standards. Knowledge in best practices and building codes in design and delivery of large scale projects. Strengths are work ethic, positive attitude, results oriented, excellent communication/inter personal skills, works well under pressure and with others interacting at all levels.

Experience

FEMA

Civil Engineer/QAQC/Public Assistance Project Specialist
February 2018 - April 2019

Puerto Rico

QAQC Quality Assurance/Quality Control (Contractor ATCS-FLUOR)

- Ensure accurate project accounting for PW data packages
- Review support documentation against the corresponding PW data package scope of work (SOW) to reconcile project costs and scope
- Work with project controller as necessary to identify corrections needed for missing support and cost documentation for the PW
- Research details of contracts, invoices, payment logs, time sheets, purchase orders, procurement, and other documentation
- Validate documentation
- Review FEMA Public Assistance (PA) Project Worksheets (PW) for consistency between the Description of Damages and Scope of Work

BIM Manager: Managing Revit

InfraWorks 2019 Essential Training

Navisworks 2019 Essential Training

ArcGIS Pro Essential Training

Oracle Primavera P6 Essential Training

Microsoft Project 2019 and Project Online Desktop Essential Training

Cert Prep: Project Management Professional (PMP)®

Top Skills

Federal Grants Manager

Federal EMMIE System

Computer Expert

Civil Engineering

Structural Engineering

Autodesk Revit

Autodesk Civil 3D

Autodesk Map 3D

Autodesk AutoCAD

InfraWorks

Navisworks

ArcGIS

ETABS

STAAD

SAP2000

MathCAD

Autodesk Robot Structural

Analysis

Project Engineering

Construction Management

Construction Drawings

- Federal Grants Manager system expert
- Federal EMMIE system expert
- Computer Expert
- Security clearance

PDMG • Private Non-Profits/Schools/Universities (Contractor ATCS-FLUOR)

- Defining the project (disaster related site, i.e. flooding)
- Identifying basic project conditions
- Meeting with the applicants
- Gathering project details for worksheet
- Taking photographs and GPS coordinates
- Conduct numerous site visits with shareholders to accurately document actual damages incurred during the incident period
- Collecting documentation from applicants
- Maintain electronic and paper files as required for closeout
- Preparing the project worksheet on computer
- Diligent in following policy and disaster-specific guidelines
- Work is consistent with codes and standards
- Validation of documentation
- Working categories, A, B & E for obligation
- Conducting exit briefing and getting signatures

PA (Public Assistance) Project Specialist • Municipalities (FEMA)

- Meeting with applicants
- Collecting documentation from applicants
- Preparing project worksheet on computer
- Validation of documentation
- Working categories, A & B for obligation

Freelance

Civil Engineer

2009 - 2017

Puerto Rico

Project Manager of multiple projects all done under budget and ahead of schedule.

- Apartment structure design, site supervision of all subcontractors to maintain work quality. Ensured construction adheres to all relevant building codes.
- Residential, renovations & expansion development applying accepted principles, codes, and standards.

Project Coordination

Project Planning

Structural Analysis

Road Design

Gravity & Pressure Pipe

Design

Cost Estimating

On-Screen Takeoff OST

Microsoft Project

Agile Project Management

Primavera P6 R16.2

Microsoft Word

Microsoft Excel

Microsoft Power Point

Languages

Spanish

English

- Manage payroll and purchase orders to keep project under budget
- Supervise quality, coordinate with field contractor & calculate concrete
- Supervise OSHA compliment of sub-contractors with all projects getting high remarks for security
- Conflict resolution between sub-contractors to keep good working environment and project on time
- Weekly appointments on site between owners and sub-contractors
- Purchase of materials and rent of construction machinery
- Continued education in; AutoCAD Civil 3D, AutoCAD Map 3D, Robot, Revit, Staad, Etabs, Sap 2000, Infracore, Navisworks, ArcGIS Roadway design, gravity and pressure systems, etc.

Cue & Lopez

Assistant Project Manager at Cue & Lopez: Peñamar Ocean Club -800 Apartments

2006 - 2008

Fajardo, Puerto Rico

Supervise sub contractors for certification and payment finishing the project ahead of time. Coordinate daily work with subcontractors to maintain good working environment and quality of work done. Assist engineer with monthly certifications of subcontractors and the developer. Assist engineer with payroll and purchase order to keep the project under budget. Inspector of structure quality and safety of sub-contractor work. Supervise quality, coordinate with field contractor & calculate concrete, supervise OSHA compliance of sub-contractors with all my projects getting high remarks for security. Supervise asphalt brigade on site accomplishing high quality of work. Used my knowledge in best practices and building codes in design and delivery of large scale projects.

License - Engineer in Training

Issuing authority Department of State

Issued Jun 2019 - Expired Feb 2024

Credential ID 26936

Education

University of Alabama at Birmingham GPA 3.7

Master of Engineering - MEng, Construction Engineering Management · (August 2020)

Polytechnic University of Puerto Rico

Bachelors, Civil Engineering · (2009)



The University of Alabama at Birmingham

School of Engineering

On recommendation of the President and Graduate Faculty,
the Board of Trustees, by virtue of the authority vested in it, has
conferred on

Jorge Arturo Santana Aquino

the degree

Masters in Engineering

In Testimony Whereof, this diploma is issued with the seal of the University
and the signatures authorized by the Trustees herunto affixed
this fifteenth day of August, 2020



Ray L. White
President

[Signature]
Dean, School of Engineering

[Signature]
Dean, Graduate School

Polytechnic University of Puerto Rico



THE BOARD OF TRUSTEES OF THE UNIVERSITY
UPON RECOMMENDATION OF THE FACULTY
HEREBY CONFERS UPON

George Arturo Santana Aquino

THE DEGREE OF

Bachelor of Science in Civil Engineering

IN RECOGNITION OF THE COMPLETION OF THE PRESCRIBED
PROGRAM OF STUDY WITH ALL THE HONORS,
RIGHTS AND PRIVILEGES THERETO APPERTAINING.
GIVEN UNDER THE SEAL OF THE UNIVERSITY AT
San Juan, Puerto Rico, this twenty-fourth day of June, 2010.

CHAIRMAN OF THE BOARD OF TRUSTEES

PRESIDENT OF THE UNIVERSITY

RENOVACIÓN APROBADA: 27 de junio, 2019
RENEWAL APPROVED ON: June 27, 2019



Gobierno de Puerto Rico
Government of Puerto Rico
DEPARTAMENTO DE ESTADO
Department of State

Secretaría Auxiliar de Juntas Examinadoras
Office of the Assistant Secretary of State for Examining Boards

La Junta Examinadora de Ingenieros y Agrimensores
The Examining Board of Engineers and Land Surveyors

por la presente certifica que
hereby certifies that

Jorge A. Santana Aquino

habiendo cumplido todos los requisitos de Ley, se ha inscrito en el Registro de esta Junta como
having met all the requirements of law, has been registered as:

Ingeniero en Entrenamiento

Engineer in Training

En testimonio de lo cual se expide este certificado para autorizar el ejercicio limitado de dicha profesión bajo la supervisión directa
de un profesional licenciado.

In testimony whereof, this certificate is issued to authorize the limited practice of this profession, under the direct supervision of a licensed professional.

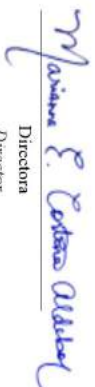
En San Juan, Puerto Rico, efectivo 05 de febrero de 2019
In San Juan, Puerto Rico, effective February 05, 2019.

Número de Certificado: 26936
Certificate Number

Vencimiento: 04 de febrero de 2024
Expires: February 04, 2024




Presidente


Directora
Director



CIAPR

El Colegio de Ingenieros y Agrimensores de Puerto Rico

hace constar que

Jorge A. Santana Aquino


A quien la Junta Examinadora de Ingenieros y Agrimensores de Puerto Rico ha autorizado a ejercer con las limitaciones contenidas en la Ley 173 del 12 de agosto de 1988, según enmendada, como

Ingeniero en Entrenamiento (EIT)

**Certificado Núm.
26936**

en el Estado Libre Asociado de Puerto Rico, ha sido aceptado como miembro de este Colegio en virtud del cumplimiento con los Estatutos y la Ley creadora del Colegio y la Ley que regula el ejercicio profesional.

Firmado y Sellado en San Juan de Puerto Rico, hoy día 11 de abril de 2015


Ing. Edgar I. Rodríguez Pérez
Presidente


Ing. Pablo Vázquez Ruiz
Secretario



LinkedIn LEARNING
Certificate of Completion
Congratulations, Eng. Jorge A. Santana Aquino EIT

Autodesk Civil 3D 2020 Essential Training
Course completed on Apr 16, 2019 • 9 hours 17 min

By continuing to learn, you have expanded your perspective, sharpened your skills, and made yourself even more in demand.

Jorge Sotelo

VP, Learning Content at LinkedIn

LinkedIn Learning
1000 W Maude Ave
Sunnyvale, CA 94085

Certificate ID: a9329378949168101022a310e6



LinkedIn LEARNING
Certificate of Completion
Congratulations, Eng. Jorge A. Santana Aquino EIT

AutocAD Civil 3D: Designing Residential Projects
Course completed on Aug 15, 2018 • 3 hours 11 min

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VP, Learning Content at LinkedIn

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Sunnyvale, CA 94085

Certificate ID: 8W-SZ55V0302965C91Q-48P18X



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Certificate of Completion
Congratulations, Eng. Jorge A. Santana Aquino EIT

**AutoCAD Civil 3D: Designing Gravity
Pipe Systems**
Course completed on Aug 25, 2018 • 3 hours 33 min

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AutoCAD Civil 3D: Pressure Pipe Design
Course completed on Aug 17, 2018 • 2 hours 45 min

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Civil 3D: Basic Roadway Design
 Course completed on Apr 13, 2019 • 2 hours 47 min

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 Sunnyvale, CA 94085

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 Certificate of Completion
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AutoCAD Civil 3D: Site Design
 Course completed on Apr 13, 2019 • 3 hours 38 min

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 Certificate of Completion
 Congratulations, Eng. Jorge A. Santana Aquino EIT

AutoCAD Civil 3D: Topographic and Boundary Survey
 Course completed on Apr 14, 2019 • 2 hours 7 min

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 Sunnyvale, CA 94085

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 Certificate of Completion
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AutoCAD Civil 3D: Plan Production
 Course completed on Apr 15, 2019 • 1 hour 37 min

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 Certificate of Completion
 Congratulations, Eng. Jorge A. Santana Aquino EIT

AutoCAD 2020 Essential Training
 Course completed on Apr 16, 2019 • 3 hours 30 min

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Certificate ID: 4p201904162501nqpl3d42a6



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AutoCAD: Construction Drawings
 Course completed on Apr 17, 2019 • 3 hours 18 min

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Revit 2020: Essential Training for Structure (Metric)
 Course completed on Apr 18, 2019 • 5 hours 20 min

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Revit 2020: Essential Training for MEP (Metric)
 Course completed on Apr 20, 2019 • 4 hours 47 min

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Certificate ID: 455f-4p2019042018215142341



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 Congratulations, Eng. Jorge A. Santana Aquino EIT

Revit 2020: Essential Training for Architecture (Metric)
 Course completed on Apr 21, 2019 • 11 hours 52 min

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Certificate ID: A1B895WZ2046CCE6E961C25



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 Certificate of Completion
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BIM Manager: Managing Revit
 Course completed on Apr 21, 2019 • 2 hours 41 min

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 Certificate of Completion
 Congratulations, Eng. Jorge A. Santana Aquino EIT

InfraWorks 2019 Essential Training
 Course completed on Apr 22, 2019 • 4 hours 7 min

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Navisworks 2019 Essential Training
 Course completed on Apr 22, 2019 • 3 hours 24 min

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 Certificate of Completion
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ArcGIS Pro Essential Training
 Course completed on Apr 23, 2019 • 4 hours 25 min

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 Congratulations, Eng. Jorge A. Santana Aquino EIT

Primavera P6 Essential Training
 Course completed on Apr 23, 2019 • 39 min

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 Certificate of Completion
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Microsoft Project 2019 and Project Online Desktop Essential Training
 Course completed on Apr 24, 2019 • 5 hours 21 min

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Certificate ID: A01720M11040104_0016501110



LinkedIn LEARNING
 Certificate of Completion
 Congratulations, Eng. Jorge A. Santana Aquino EIT

Cert Prep: Project Management Professional (PMP)®
 Course completed on Apr 26, 2019

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 VP, Learning Content at LinkedIn

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 Certificate No: A01720M11040104_0016501110 / Contact: tsanyal@lnli.com