

Roy Soto, P.E.
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PROFILE

- ✓ Extremely adaptable and able to smoothly transit to new situations and challenges with a self-motivated and optimistic outlook
- ✓ Exceptionally talented in communications skills, particularly generating different styles of documents ranging from simple emails to engineering and technical reports
- ✓ Highly skilled in leading and executing complex and multi-disciplinary projects at all organizational levels
- ✓ Proven professional with over 8 years of experience in civil/environmental engineering and management

ACHIEVEMENTS

- ✓ Assisted in the preparation of over 670 Operation and Maintenance (O&M) guidelines and Standard Operational Procedures (SOP)
- ✓ Completed a Preliminary Engineering Report (PER) for a possible expansion in treatment capacity of a WTP from 5 to 10 million gallons per day (MGD)
- ✓ Developed over 3 Ranking Systems (RS)
- ✓ Developed the construction of sophisticated technical equipment used in WTP evaluations
- ✓ Fully or partially involved in over 25 construction projects, in the areas of: water and wastewater treatment plants, pump stations, pharmaceutical industry, restaurants, hotels, homes and offices
- ✓ Interacted with hundreds of people from various agencies and companies at all hierarchical levels through different scenarios, such as: meetings, presentations, interviews, team work and evaluations
- ✓ Involved in over 8 (six water and two wastewater) plant start-ups
- ✓ Led and performed over 100 Filter Assessments (FA)
- ✓ Led and performed over 38 Comprehensive Performance Evaluations (CPE)
- ✓ Performed over 37 Sludge Treatment System (STS) Evaluations
- ✓ Successfully translated dozens of conversations and technical documents back and forth between the languages of English and Spanish
- ✓ Supervised and participated in over 20 Sludge Handling Assessments (SHA)
- ✓ Trained over 60 individuals in at least one of the following: Train the Trainer, FA, CPE, SHA and STS Data Collection, Use of Developed Templates, Use of AutoCAD, Use of MS Excel, Use of MS Project, Schedule and Proposal Generation, Preparation of O&M Manuals and SOP, Daily Reports Generation, WTP Operations, Equipment Calibration and Use, Construction of Technical Equipment, Water Theft Prevention Inspections and Calculations

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EXPERIENCE

WATER & WASTEWATER TREATMENT INDUSTRY – MANAGEMENT

Consultant

Sep/09-Present

RER Environmental Engineering Services, San Juan, PR

Provided professional services including but not limited to: conducting special evaluation studies for the optimum performance of water and wastewater treatment plants (i.e., CPE, CTA, SHA, STS and FA), revision of plant design, plant start-up support, project management and planning, cost estimates, proposal preparation, training, and generation of templates and technical reports.

Technical Director

Jan/2008-Sep/09

RER Environmental Engineering Services, San Juan, PR

Provided technical assistance to project teams for ongoing and upcoming projects; trained personnel; planned, scheduled, budgeted and managed complicated projects; and prepared and reviewed technical reports.

Operations Director

Dec/2006-Dec/07

RER Environmental Engineering Services, San Juan, PR

Led a team of over 20 professionals and monitored the progress of projects, addressed difficult situations when they arose and kept the company's president informed. Represented the company president at meetings. Collected, reviewed, uploaded and compiled the performance data for monthly metrics presentations.

Project Engineer

Aug/2005-Nov/06

RER Environmental Engineering Services, San Juan, PR

Conducted several special studies mainly focused on optimizing water and wastewater treatment facilities of the Puerto Rico Aqueduct & Sewer Authority (PRASA) throughout Puerto Rico. Provided support in post-construction services offered to the PRASA's west region Project Management Consortium (PMC). Prepared many reports and presentations which led to contracting new projects. Oversaw the construction of sophisticated technical equipment to facilitate evaluations and increase the professional look of the company.

CONSTRUCTION INDUSTRY – MANAGEMENT

Resident Inspector

Aug/2004-Apr/05

D+M Design & Management Solutions, Caguas, PR

Primarily responsible for the inspection of a low-income housing development consisting of multi-story dwellings subjected to funding from the United States Department of Housing and Urban Development (HUD) with the objective of completing each task in accordance with project drawings and specifications.

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**Assistant Project Engineer
(Temporary)**

Dec/2003-Jan/2004

SCA Consulting Group, Guaynabo, PR

Inspected the replacement of a manufacturing equipment sterilizer in a clean room, for the Amgen Pharmaceutical building located in Juncos, PR, with the objective of completing all tasks within the operations shutdown period.

**Assistant Project Engineer
(Temporary)**

Aug/2003-Oct/2003

Construcciones Roalca, San Juan, PR

Monitored the rehabilitation of a storage facility, in the San Juan Thermoelectric Plant, to foresee the completion of each task in accordance with project drawings and specifications. *NOTE: The job was part of a civil engineering practice program monitored by the Polytechnic University of Puerto Rico.*

Project Supervisor

May/2002-Aug/2005

Interiores Soto (Interior Contractor), Caguas, PR

Responsible for the continuous progress and quality of interior renovation projects in restaurants, hotels, homes, offices, and pharmaceutical industry sites.

EDUCATION

M.S. in Structural Engineering, March 2006

Polytechnic University of Puerto Rico at San Juan, PR

- Advanced Foundation Design (3 of 36 credits approved; quarterly period program)

B.S. in Civil Engineering, May 2004

Polytechnic University of Puerto Rico at San Juan, PR

- Led a team of 4 classmates for a period of 6 months during the engineering design project for graduation

LICENSES & CERTIFICATIONS

- ✓ Licensed Professional Engineer by the Puerto Rico Department of State
- ✓ Licensed Wastewater Treatment Operator IV by the Puerto Rico Department of State
- ✓ Licensed Water Treatment Operator IV by the Puerto Rico Department of State
- ✓ Certified 10 hour Construction Safety & Health by U.S. Department of Labor – OSHA
- ✓ Certified Open Water Scuba Diver by PADI

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JOB RELATED TRAINING

- ✓ 15th Drinking Water Seminar – Ground Water Under Direct Influence of Surface Water (GWUDI) Regulations & Evaluation Methods
- ✓ 2009 ARRA for Puerto Rico & it's Impact in the Infrastructure Development of the Island
- ✓ Construction Management Training & Sustainability
- ✓ Implementation Process of the Digital Signature for the submittal of Plans & Permits Through the SIP
- ✓ Installation & Design of Rockwood Retention Wall Systems
- ✓ Introduction to Lean Six Sigma for Production Processes
- ✓ Introduction to Particle Counting and Its Use for Water Treatment Optimization
- ✓ Mitigation, Equipment & Technics for the Monitoring of Structures
- ✓ Optimizing Water Treatment Plant Performance Using the United States Environmental Protection Agency's (USEPA) Composite Correction Program (CCP)
- ✓ Project Management
- ✓ Real Estate Law and Financing Training
- ✓ Safety & Management of Chlorine Emergencies & the Use of Self Contained Breathing Apparatus (SCBA)
- ✓ Seismic Design of Building Under the IBC
- ✓ Technic for Modified Cement with Type 1 Slag (Pozzolanic Cement)
- ✓ The Good Writing Skills & Press Releases
- ✓ Vulnerability Analysis of Non-PRASA systems

ADDITIONAL INFORMATION

- ✓ As a team leader, I was responsible for the oversight of personnel and for addressing work issues, concerns, and performance; personnel matters were addressed while simultaneously ensuring a quality work product completed within required parameters and deadlines
- ✓ Bilingual: English & Spanish, both written and oral
- ✓ Computer programming abilities
- ✓ Engineering related computer programs knowledge and experience: AutoCAD, SAP 2000, Haestad Methods (i.e., WaterCAD, StormCAD, SewerCAD, FlowMaster, CulvertMaster), MathCAD, HCS 2000, GROUP6, SHAFT5, DRIVEN, Slope, Sure Trak (Primavera), MS Project, MS Visio, MS Excel, MS Word, MS Power Point, Windows Movie Maker, and various other software and applications

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- ✓ Engineering-related experience in: drawing interpretation; hydraulic profiles, proposals, engineering reports, filter assessments; operation and maintenance guidelines preparation; water treatment plants operation and optimization; land surveying; construction and forensic inspections; project management; cost estimates; scheduling; and limited experience among other civil engineering design areas (i.e., sanitary and storm sewer systems, water treatment units dimensioning, transportation geometric design, concrete and steel structures, and other similar fields)
- ✓ Familiar with budgeting procedures
- ✓ Familiar with Codes and Regulations, such as: the American Concrete Institute (ACI), American Institute of Steel Construction (AISC), International Building Code (IBC), Uniform Building Code (UBC), American Association of State Highway and Transportation Officials (AASHTO), Manual on Uniform Traffic Control Devices (MUTCD), Clean Water Act (CWA), Surface Water Treatment Rule (SWTR) and its amendments, and Ground Water Under the Direct Influence of Surface Water (GWUDI)
- ✓ PC, Mac and Smartphone literate

PROFESSIONAL AFFILIATIONS

- ✓ Member of the College of Engineers & Land Surveyors of Puerto Rico (CIAPR is the Spanish acronym)
- ✓ Member of the American Society of Civil Engineers (ASCE)
- ✓ Member of the Environmental & Water Resources Institute (EWRI)