NESTOR ACEITUNO, P.E., CFM

Water Resources Director/Senior Project Engineer
Ardaman & Associates, Inc., Orlando, Florida

EDUCATION:

UJMV, Caracas/Venezuela, Bachelor of Science in Civil Engineering 1989

PROFESSIONAL HISTORY:

2018 to Present — Water Resources Project Director/Senior Project Engineer
Ardaman & Associates, Inc., Orlando, Florida

Director/Senior Project Engineer, plans, manages, and conducts water resources studies, analyses, and special projects; plans and directs the work of staff and consultants.

2010 to 2018 — Senior Project Engineer
Ardaman & Associates, Inc., Orlando, Florida

Senior Project Engineer on a variety of water resources projects, including multi-disciplined large scale comprehensive watershed management programs (WMPs), and environmental permitting projects. Expert in hydrology, hydraulics, water quality, mathematical modeling and data analysis, with over 30 years of experience; involved as manager and senior project engineer on numerous hydrologic and hydraulic assignments including WMPs which were part of the Federal Emergency Management Administration (FEMA) map modernization process for floodplain delineation, pre-post evaluations in support of Development of Regional Impacts (DRIs), Environmental Resource Permitting (ERPs) for large mine reclamation evaluations and industrial sites, conceptual and detailed hydraulic design of phosphogypsum stacks and landfills, conceptual hydrologic studies, meteorological statistical analyses, dam break evaluations, floodway analyses, stream-gaging programs, and water supply systems in the USA and abroad. Responsible for writing proposals; planning and overseeing a group of projects and staff engineers during development and design of stormwater projects; performing, reviewing, and evaluating hydraulic designs and analyses; and writing technical reports.

2001 to 2010 — Project Engineer
Ardaman & Associates, Inc., Orlando, Florida

Project Engineer on a wide variety of water resources projects related to stormwater runoff including, collection, construction, and analysis of topographic data (DEM, DTM, TIN, USGS), land cover, soils (SSURGO) and climatic data, field investigations, model development, event simulation (single and multiday events), historical and radar precipitation data (NEXRAD) to model precipitation in hydrologic models, sensitivity analyses, data calibration and verification for floodplain development, non-point source pollutant load modeling, best management practices (BMPs), level of service determination (LOS), pre- and post-development analyses, and report preparation. Performed data processing using ArcGIS and CAD systems to manage large amounts of data suitable for a wide variety of hydrology and hydraulic (H&H) model input and output data sets.

1996 to 2001 Project Engineer
Florida Engineering and Design, Inc., Lakeland-Florida

Project Engineer responsible for planning and organizing civil/water resources projects primarily for the phosphate mining industry, performed field investigations and data collection, hydrologic studies, hydraulic evaluation and detailed design, civil layout, grading plans, optimal earthwork configuration, permitting, and report preparation. Participated in several mechanical projects for phosphate beneficiation plants, from conceptual to final detailed design, including pipe and pumping hydraulic design and selection. Designed, developed and tested a hydraulic physical scale model to predict the behavior of a prototype energy dissipator.

1989 to 1995 Staff Engineer
Hydra-Stu C.A., Caracas-Venezuela S.A.

Organized, planned, designed, and scheduled construction projects for the oil and petroleum industry; managed and coordinated construction staff; assisted senior engineers to complete civil and water resources projects, from feasibility studies to final detailed designs. Gathered, compiled, and analyzed field data, conducted field surveys, prepared cost estimates for design and construction projects including compiling material lists using the international Material and Equipment Standards and Codes (M.E.S.C.) system, and wrote technical reports. Designed and operated a physical scale model to simulate the loading of petroleum products through several articulated loading arms systems connecting a cargo terminal with an oil tanker to assist a team of engineers in selecting the most efficient and feasible system suitable for local operating conditions.

PROFESSIONAL REGISTRATION:

Professional Engineer (PE) Florida License, No. 64652
Colegio de Ingenieros de Venezuela (CIV) No. 73.747
Certified Floodplain Manager (CFM) No. US-08-03456

PROFESSIONAL AFFILIATIONS:

Florida Floodplain Managers Association (FFMA)
Association of State Floodplain Managers (ASFPM)

LANGUAGES:

Spanish
English