

CIVIL ENGINEER

Summary

Motivated Civil Engineer committed to safety and the creation of solid infrastructure that will be of lasting value, with experience in public projects for the Department of Agriculture and Department of the Army.

Experience

01/2013 to Current

Civil Engineer Stantec Inc. 1/4 Maryland , LA

- Participated in planning, designing, and reviewing plans for concrete and steel structures requiring structural analysis to determine static and dynamic responses for various civil and military projects.

- Performed structural designs to meet both strength and deflection limit states of current building codes, ASCE 7, AISC LRFD (Steel), and ACI 318 (Concrete).

- Performed structural analysis for existing structures to determine weak locations and participated in the design of structural rehabilitation and alteration of those structures.

- Performed annual and periodic levee inspections and screenings.

- Attended weekly meetings with other team members to coordinate the shop-drawing review process and resolve the fabrication issues for military projects at Fort Sill, OK.

08/2008 to 08/2011

Civil Engineer Vanasse Hangen Brustlin 1/4 Richmond , VA

- Provided engineering support to the 26 counties in Middle Tennessee.

- Assisted with the coordination of construction projects with other NRCS service centers.

- Designed beef stacks, poultry litter storage buildings, composters, and other miscellaneous agricultural facilities.

- Designed stream crossings, ponds, rock riprap chutes, and other miscellaneous streambank stabilization projects.

- Developed and reviewed engineering drawings.

- Prepared and inspected construction sites under NRCS conservation programs.

- Conducted engineering surveys for various projects.

- Participated in the design of rock riprap and concrete chutes for the Cane Creek Restoration Project in West Tennessee.

- Assisted the agency leadership to identify barriers or potential barriers to hiring, development, advancement and retention of Hispanics in Tennessee.

- Provided solutions and program support to help eliminate such barriers.

- Developed a business plan and annual budget for the Hispanic Emphasis Program.

- Served as voting member of the Civil Rights Committee.

05/2008 to 08/2008

Intern Porter Novelli 1/4 New York , NY

- Assisted field manager during construction of Constellation projects.

- Assisted in evaluating contractor proposals and answering requests for information (RFI's).

- Reviewed construction drawing submittals.

- Witnessed equipment installation and system testing.

02/2006 to 08/2006

Intern Porter Novelli 1/4 Washington , DC

- Assisted in writing and evaluation of Comprehensive Nutrient Management Plans for various facilities.

â€¢ Developed cost estimate and materials list excel templates for poultry litter storage buildings and composters.

â€¢ Assisted in the development of a design template in excel for stream crossings.

â€¢ Assisted in surveying various project sites.

â€¢ Reviewed drawings for beef stacks, poultry litter storage buildings, composters, and other miscellaneous agricultural facilities.

Military Experience

07/1999 to 06/2004

Workcenter Supervisor, Electrical Division Company Name i/4 City , State

- Electrician's Mate Second Class Petty Officer, Surface Warfare
- Maintained operating efficiency of distribution panels, switches, switchboards, controllers, voltage regulators, current transformers, voltage transformers, and electric motors.
- Reviewed electrical sketches, diagrams and blueprints.
- Lead coordination of all facetsof maintenance and material management (3M) systems in the work center.
- Honorable discharge

Education

2012

Master of Science : Civil Engineering (Structural Track) Georgia Institute of Technology i/4 City , State , USA

Relevant Coursework: Matrix Structural Analysis, Structural Dynamics, Reinforced Concrete Members, Advanced Strength of Materials, Dynamic Analysis in Geotechnical Engineering, Prestressed Concrete, Structural Steel Design, Earthquake Engineering, Open Channel Hydraulics, Soil Mechanics.

2008

Bachelor of Science : Civil Engineering (Structural Track) Georgia Institute of Technology i/4 City , State , USA

Relevant Coursework: Mechanics of Deformable Bodies, Principles & Applications of Engineering Materials, Thermodynamics, Fluid Mechanics, Hydraulic Engineering, Environmental Engineering Principles, Environmental Engineering Systems, Civil Engineering Systems, Civil Engineering Materials, Construction Engineering & Management, Structural Analysis I & II, Structural Steel Design, Reinforced Concrete Design, Timber & Masonry Design, Rehabilitation of Existing Structures.

2005

Associate of Arts : Articulated Pre-Engineering (UCF) Valencia Community College i/4 City , State , USA

Relevant Coursework: Calculus with Analytic Geometry I, II & III, Differential Equations, General Chemistry with Qualitative Analysis I & II, General Physics with Calculus I & II, Engineering Analysis - Statics, Engineering Analysis - Dynamics, Basic Surveying Measurements.

Certifications

Engineer In Training (EIT)

State of Tennessee Board of Architectural and Engineering Examiners

Certification No. 27372

Certification Date December 22, 2009

Awards

SMART Scholarship, 2011-2012

Goizueta Foundation at Georgia Tech Scholarship, 2006-2008

USDA Public Service Leaders Scholarship, 2005-2008

Valencia College Honors Program Scholarship, 2005

National Defense Service Medal, 2004

U.S. Navy and Marine Corps Achievement Medal, 2002

U.S. Navy Meritorious Unit Commendation, 2002

U.S. Navy Good Conduct Medal, 2002

U.S. Navy Sea Service Deployment Ribbon, 2002

Community Service

Learning Goal Board of Directors, Secretary

Learning Goal is a non-profit organization whose goal is that more children and teenagers from underdeveloped areas have access to quality education and are enabled to meet their personal and professional development with better opportunities. My involvement in Learning Goal includes fundraising, coordination of operations in the US, and structural design and material selection for school building projects in Peru.

Affiliations

American Society of Civil Engineers (ASCE)

Engineers Without Borders (EWB)

Society of Hispanic Professional Engineers (SHPE)

Languages

Bilingual Spanish/English

Skills

Microsoft Office

AutoCAD

MathCAD

RISA

MicroStation