

JACK WHITLEY

EXPERIENCE

May 2023 – Current

Engineering Technician, Ray Engineering, Inc., Norcross, Georgia

Provide consulting services for civil/structural and construction related problems for various condominium, apartment, single-family, residential, and commercial properties.

Conducts Property Condition Assessments and prepares detailed reports.

Conducts Capital Reserve Analyses

Conducted and analyzed retaining structures, underground facilities.

Utilizes AutoCAD for design preparation and specifications for restoration of deficiencies and new construction.

Perform nondestructive testing (NDT), structural analysis, structural condition assessments, inspection of repair work and building envelope components.

June 2021- May 2023

Associate Consultant, Civil Engineer, WSP, Inc. Atlanta, Georgia

Modeled existing and proposed drainage systems using OpenRoads Designer, MicroStation and StormCAD to create drainage plans, profiles, and cross-sections for GDOT roadway projects.

Performed hydraulic calculations to find headwater and overtopping elevations, gutter spread, pipe flows and velocities, and hydraulic grade lines to layout proposed drainage systems.

Analyzed hydrology of major roadway crossings using rational and TR-55 method by delineating watersheds and their land uses, implementing rainfall data, and calculating time of concentration.

Created erosion control plans by implementing BMPs including check dams, silt fencing, sediment traps, and rip rap to protect projects in the initial, intermediate, and final stages.

Gather information needed for quantity takeoffs and report packages including drainage, MS4 & Non-MS4.

Summer 2020

Civil Engineering Intern

Assisted civil and traffic engineers on GDOT roadway projects involving the preliminary design of highway expansions and renovations using MicroStation.

Created signing and marking sheets using GDOT standards and drafted sign details using GuideSIGN.

Analyzed and calculated pavement quantities for construction estimates.

Summer 2019

Civil Engineering Intern, James W. Buckley & Associates, Inc., Swainsboro, GA

Assisted civil engineers on several school projects involving the design and drafting for demolition, grading and drainage, utilities, sewer plans and construction details using AutoCAD & Civil 3D.

Analyzed documents including survey plats, soil reports, and cost estimates.

Summer 2016-2018

Field Technician/Survey Crew, McFarland Dyer & Associates, Inc., Atlanta, GA

Performed topographic & boundary/control surveys and construction staking for commercial & residential sites using GPS, robotic total station, and data collector.

Prepared survey plats using AutoCAD & Carlson software

EDUCATION & TRAINING

Georgia Southern University – Spring 2021

Bachelor's Degree Major: Civil Engineering

Engineer in Training, State of Georgia - September 2021