

Resume



TREY HAIR **Engineering Technician**

Education

AS. Engineering Technology, Midlands Technical College

Experience Highlights — Mr. Hair is an engineering technician who supports CSE's professional engineers and geologists in projects pertaining to beach nourishment, groin and jetty design, revetments and seawalls, inlet relocations, and water-front and marina designs. He performs profile analysis from collected and/or existing data, historical shoreline assessments, topographic and bathymetric data compilation, volume calculations, erosion assessments, and sediment transport studies.

As CSE's CAD manager, Mr. Hair utilizes land development software in design of coastal engineering projects including beach nourishment, groins, jetties, seawalls, and inlet relocations. He maintains CSE's database of annual monitoring projects in several southeastern locations including South Carolina sites (Seabrook Island, Folly Beach, Kiawah Island, Myrtle Beach, Hunting Island, Debidue Island) and North Carolina sites (Bogue Banks, Ocean Isle Beach, Nags Head, Kitty Hawk). He uses Arcview GIS software to assess shoreline changes, to support FEMA flood studies, to conduct spatial analysis, and to determine changes in the landscape. Mr. Hair has served as an expert CAD/survey analyst in support of a court case involving erosion at Asharoken (NY).

Mr. Hair has extensive field data collection experience, including field investigations of project sites, installation of coastal engineering instrumentation, and collection of samples for testing. Mr. Hair is proficient in survey processes from initial setup of projects to data reduction and map production.

Mr. Hair's responsibilities include production of construction plans for major coastal engineering projects in the past five years including one of the

largest locally funded beach nourishment projects ever completed along the U.S. East Coast at Bogue Banks (NC), which involved three separate towns and ~16.8 miles of shoreline.

Mr. Hair has performed underwater assessments of revetments, seawalls, and coastal structures, as well as reconnaissance surveys for a directional-drilling project. He has logged over 500 dives to collect sediment samples and set coastal analysis instrumentation for the study of tides, waves, and currents (ADP, MD, XR, mini-wave, etc).

Major Projects

Cooper River Bridge Hydrographic Study
Bogue Banks Nourishment
Hunting Island Nourishment
Edisto Beach Nourishment
Edisto Beach Groin Repair
Nags Head Beach Nourishment
Folly Beach Groin Design
Myrtle Beach Outfall Design
Asharoken Erosion Case
Al Khiran Monitoring (Kuwait)

Certifications

PADI Open-Water Certified Diver
TDI Nitrox Diver
Engineering Graphics
3-D Design
Civil Design
AutoDesk™ University

Memberships

ADDA
AUGI AutoDesk User Group International

Software Program Capabilities

AutoCAD 2006
Land Desktop 2006
Civil 3D 2006
AutoDesk Map/Survey
ArcView GIS
Trimble Geomatics Office/Hydropro
Delorme X-Map
3-D Studio Max/Viz
BPAS