

# Driven Engineering, Inc.

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## Robert Nykvist

**Education:** Bishop State Community College  
Associate of Applied Science in Drafting & Design Technology – May 2000

**Experience:** **Senior Civil Designer**  
**Driven Engineering, Inc., Semmes, Alabama**  
March 2006 to present  
Senior Cad Designer with expertise using AutoCAD, Eagle Point, and many other programs that assist in the evaluation of sites and detailed design creation and drafting, as well as company IT expert. Assist in wetland delineation for clients and perform BMP site inspections. Help develop standards to resolve work flow issues and to minimize risks for data errors. Help assign tasks to drafters and checking.

**Gulf Atlantic Operations** – drafting & design of several rail spurs and transloading areas on three individual sites in Chickasaw and the City of Mobile, plus analyze existing rail conditions from survey data.

**University of South Alabama:** Drafting & Design of new NCAA practice fields and a football field house.

**Joan Harris Road, et al:** Drafting & Design on a grade-drain-base-and pave Mobile County Pay As You Go project of 1.1 miles off Coy Smith Highway in upper Mobile County.

**Ramey Road and Tanner Road:** Grade-drain-base-and pave drafting & design of 0.5 miles of Mobile County Roads near Calvert, Alabama, and Right-of-Way Maps.

**Best Western Hotel, Semmes, Alabama:** Site layout, grading and drainage of a 1 acre parcel for a 50 unit hotel development.

**Delta Oaks Subdivision** - Street, storm drainage, detention, utilities, and onsite sewer system permitting and design of an 80 acre residential subdivision in Creola, Alabama.

**Newk's Express Café:** Drafting & design layout, grading and drainage of a new restaurant.

**Starbucks Coffee/Retail shops Springhill Ave & I-65:** Site grading and drainage of an existing developed property for a new Starbucks Coffee shop and a retail shop with drive-thru.

**Tillman's Corner Office Depot:** Drafting & design - site layout, grading and drainage of a 2.5 acre site for a new Office Depot store.

**Standard Concrete, Theodore, Alabama Industrial Access Road Design:** 1 mile access road for Standard Concrete plant site in Theodore, Alabama to meet load and turning requirements of the specialized vehicles that will be transporting completed product from the site.

**Gold mine Road Dirt Pit** – Drafting & design & entrance permit of a dirt pit in Mobile County, Alabama.

**SPEC Building Materials:** Drafting of the topographic survey and site design for demolition and improvements to an existing building site in Prichard, Alabama.

**Leacy Estates Subdivision** – Drafting & design of a 10 acre Prichard Housing Authority Subdivision as a consultant to the Mitchell Company. The project consisted of street, storm drainage, detention, and utilities design as well as site grading and stakeout work on the individual lots in the development.

***New Era Cap Co. Security Plan and site design:*** Evaluation of an existing developed site to improve security and fencing layouts as well as increase the parking area capacity for the site located within the City of Mobile, Alabama.

***Porches, Unit 1 Subdivision:*** Drafting and detailed design of roadways, drainage structures, water, and sanitary sewer on a 40 acre plot of land in Elberta, AL.

***Mockingbird Hill Subdivision*** – Drafting & design of a private developer's 40 acre residential subdivision in St. Elmo, Alabama. The project consisted of street, storm drainage, detention, and utilities design.

***Civil Designer / CAD Drafter***

**Gulf States Engineering, Inc., Mobile, Alabama**

March 2004 to March 2006

Drafting and detailed design of roadways, drainage structures, water, and sanitary sewer systems as well as CADD programming and IT assistance.

***Millard Refrigerated Services:*** Site grading and drainage design assistance for a 19 acre waterfront site for the largest refrigerated warehouse in the State of Alabama, including rail spur, access road, dock, and site design services.

***Jack Williams Road, Snow Road North, and Wulff Road South:*** Widening and resurfacing design of approximately 8 miles of Mobile County roads, part of the Mobile County 2004 Pay-As-You-Go Program, including right-of-way maps and legal description assembly.

***IPSCO Steel Heat Treat Facility:*** Site grading and drainage, new rail spur, and new plant road work to support construction of the new heat treat facility near Axis, AL.

***Holcim kiln and burner alignment survey:*** Assisted surveyors by computing the location of the central axis of a 3000 degree kiln in relation to the burner to check alignment (while kiln was in operation using reflectorless robotic total station) via 3-D modeling of collected points along the outer edges of the rotating kiln.

***Calcedeavor School and Richard Weaver Road:*** Design of a new alignment of Richard Weaver Road (approx. ½ mile) in conjunction with a new vehicle and bus parking area for Calcedeavor School.

***Ineos Phenol Chemie:*** Rail spur alignment and profile as-built survey investigation to determine why rail cars were de-railing.

***Mason Ferry Road:*** Grade-drain-base-pave design of 2 miles of unimproved dirt road, part of the 2004 Pay-As-You-Go Program.

***Joe Ching Road West & South:*** Grade-drain-base-pave design of 0.7 miles of Mobile County Roads, including right-of-way maps and legal description assembly.

***Dr. Zieman Dental Facility:*** Site grading and drainage plan for a new dental clinic in the City of Mobile, AL.

**Van Aller Professional Park, Orange Beach, AL:** Site grading and drainage for a 2 acre site

Commercial Site Plans or grading and drainage plans on several other small commercial sites.

**Civil Engineering Technician**

**Rowe Surveying & Engineering Co., Inc**

**Mobile, Alabama**

May, 2000 - March 2004

Assisted with the design of roadways, drainage structures, water, and sanitary sewer systems as well as CADD drafting and design work, checked and processed survey data using Eagle Point 2000 and AutoCAD 2002, created new Autolisp routines, and assisted with engineering designs

***Nail Street Drainage Improvements*** - gabion lined open channel and concrete box culvert project.

***Wilmer-Georgetown Road*** - 8 miles of widen and resurface on a rural road with several large storm drain improvements and over a dozen intersection designs.

***Schillinger Road North*** - 2 miles of widen and resurface on a 2-lane road.

***Belmont Park Drive Dam Repair*** - created 3-D models in CAD to aid in design of the complicated spillway and bridge connections.

***Mt. Vernon Streets*** - resurfacing design of 22 streets.

***Ferland Road and Nelson Road***, 1.2 miles of widen, resurface, and reconstruction of an existing paved road and 1/2 mile of grade-drain-base-pave road design.

***Drainage Improvements for Tung Avenue*** - concrete lined open channel design.

***Plantation Commercial Park***: Commercial subdivision and service road design bordering a wetland.

***Mobile Lumber***: Highway 90 Service Road & drainage improvements design.

***Scenic Yacht Basin***: Subdivision, Water, Sewer & Drainage design

***Mobile Aerospace***: Commercial Site plans for City of Mobile Land Disturbance Permits

***Alverson Road Drainage Improvements*** - Gabion ditch with cross drain replacement design

\* Numerous Right-of-way maps for various projects

\* Commercial Site Plans or grading and drainage plans on over three dozen cellular tower sites.

### **Computer Skills:**

Autocad including menu customization and autolisp programming, Eaglepoint, Hurricane, Autoturn, Parkcad, Terrain Navigator Pro, Word, Excel, Access, Acrobat, Photoshop.