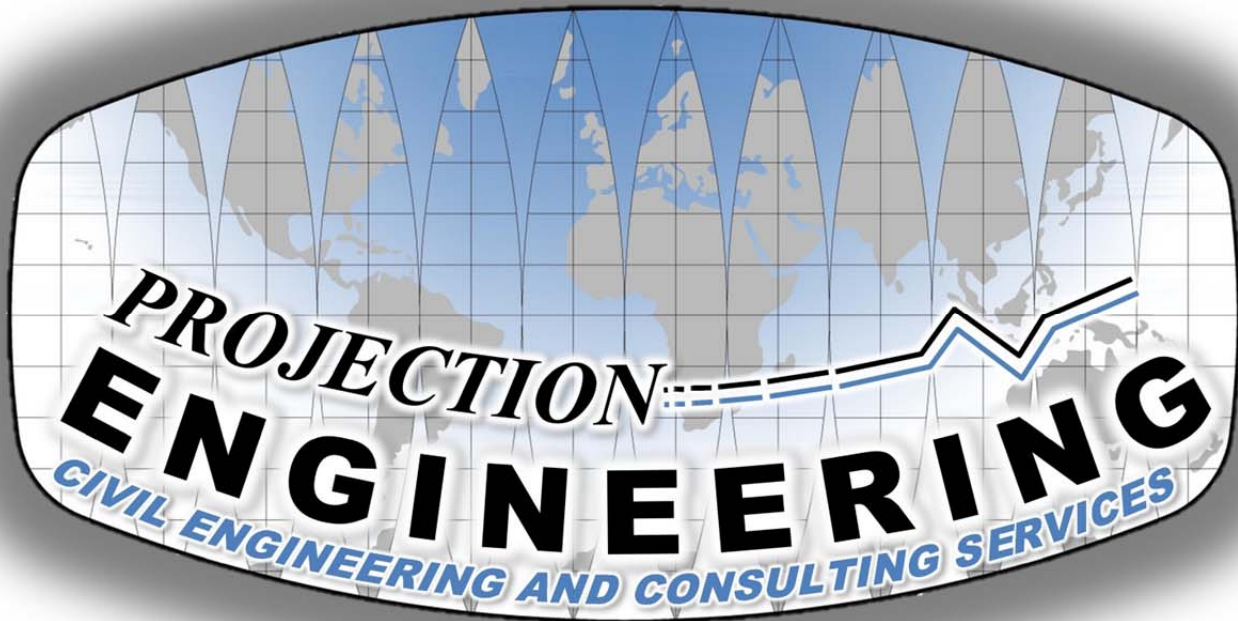


Statement of Qualifications

Feasibility, GIS, and Engineering



www.projectionengineering.com

Company Introduction and Philosophy

[Projection Engineering, Inc.](#) is a full service Civil Engineering firm located in Southern California providing exceptional professional engineering services with recognizable quality to the land development industry. Extensive knowledge in cutting edge technology allows [Projection Engineering](#) to meet the goals and objectives set forth with unbeatable results.

[Projection Engineering](#) is a new generation engineering service organization offering solutions and expertise in land development through GIS consulting, digital research, and field reconnaissance. Meeting our client's needs is the most important aspect of making a project successful, for both us, and the client. Finding solutions by implementing well thought out designs in conjunction with lending client support in order to attain objectives is the foundation of our organization.

As a result of the versatility of our personnel, the engineering team at [Projection Engineering](#) maintains a high degree of control over the projects allowing for efficient execution of design without the need for high overhead costs. Each team member contributes to the project with a unique technical expertise and all options are discussed in flat, open, structure ensuring the most resourceful, economical and sound method is chosen. In order to ensure that your product is delivered to you as expected, client involvement is encouraged during the design process.

Our focus is on good client relations, continual communication, and honest and accurate representation of project progress. We want your experience with [Projection Engineering](#) to be positive, open, and user friendly.

Project Experience

International Projects

Aden-Adde International Airport NAVAID Plan Mogadishu, Somalia

<http://www.aviationrenewables.com/somalia-sunshine.html>

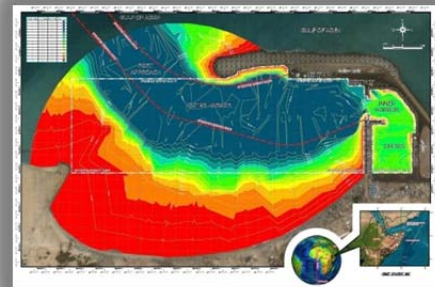
Our services included the preparation of a NAVAID plan including lighting and pavement marking location and design for the international airport in Mogadishu, Somalia, Africa. This NAVAID plan included specifications and design based on International Civil Aviation Organization (ICAO) standards. We provided construction crews with staking plans in order to install 160 medium intensity solar powered runway and taxiway lights. International logistics proved to be challenging but with our continued communication the project was a success.



Port of Bosasso Pre and Post Dredge Operations Bosasso, Somalia

<http://en.wikipedia.org/wiki/Bosaso>

A Port dredge was necessary in order to bring larger ships to port to deliver humanitarian supplies. Survey sonar soundings were taken in the harbor. We compiled the survey data, adjusted it to low tide and built a surface of the existing bottom of the Port. Through coordination with the agency we were able to design a dredge swath and give the dredging company a 3-D model and points to use during dredging operations. The Port was then re-surveyed in order to compare actual dredge removal to the design, and the contract amount.



Retail/Commercial Projects

Quarry Creek Shopping Center Oceanside, California

Completed in 2004, this proposed 35 net acre, retail power center, is over 300,000 square feet of building area. Owners include Albertsons, Kohl's, Wal-Mart, Wells Fargo, California Coast Credit Union, as well as, restaurants and retail shops.



Honda Car Dealership & Nissan Car Dealership Victorville, California

These car dealerships required civil engineering services throughout every stage of entitlement. Both project sites are contiguous to the interstate 15 freeway in Victorville, California. Permitting was required by local agencies as well as by California Department of Transportation (Caltrans). Final approvals and project entitlements were awarded and both facilities were constructed and are fully operational.



Project Experience

Industrial/Distribution Projects

Rubbermaid Distribution Center Victorville, California

<http://www.prweb.com/releases/2007/10/prweb563378.htm>

These Industrial Distribution Centers are part of a master-planned 5,000 acre multimodal business space, logistics and industrial park with, integrated air cargo, rail, ground and port access. Significant coordination, design and managerial efforts were performed in providing permit processing, civil engineering construction documentation and required survey/mapping services. Final approvals and project entitlements were awarded and each facility was constructed and is fully operational.



Space Center Industrial Project Victorville, California

<http://www.prlog.org/11528324-red-bull-takes-12500-square-feet-at-southern-california-logistics-centre.html>

The Space Center Industrial Project consisted of a 1 million SF industrial building in Victorville, California. Engineering services were requested in order to obtain approvals within the planning phase of the project. These services included boundary surveys, topographical surveys, preliminary hydrology reports, and preliminary grading and drainage designs.



Power/Energy Projects

Pine Tree Wind Project – Tehachapi Mountains, California

Pine Tree is currently under construction, our experience with the project lies in rough quantity estimating for a general contractor in which we were teamed with in the proposal and bid processing. With the projects difficult terrain, our quantity estimates were a key factor in determining a competitive bid cost for the contractor.



Langford Wind Project – Texas

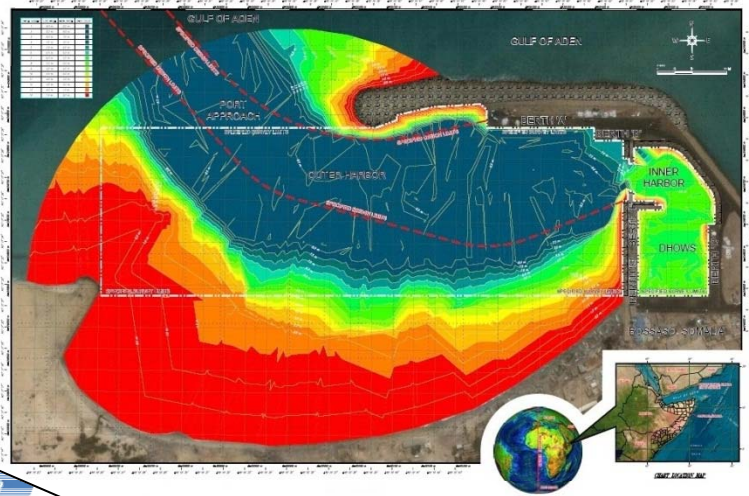
Langford is a proposed 150 Megawatt wind energy project containing 100 ~ 1.5 MW General Electric turbine sites. Final civil engineering construction documents were needed in order to move forward with contractor bids. This project consisted of approximately 40 miles of access roads, drainage design, and pad grading for construction lay down areas.



Professional Services

Preliminary Engineering Services

- Project Management
- Feasibility Studies
- Grading Analysis
- Construction Cost Opinions
- Tentative Maps
- Phasing Plans
- Exhibit Preparation



Elevated DEM Modeling

Feasibility Reports

CONSTRUCTION (EXCEPT FOR)	QUANTITY	UNIT	UNIT COST	TOTAL
FOUNDATION	1	LOT	\$275,150.00	\$275,150.00
FOUNDATION	200	YD	\$25.00	\$5,000.00
FOUNDATION	100	YD	\$25.00	\$2,500.00
FOUNDATION	50	YD	\$25.00	\$1,250.00
FOUNDATION	25	YD	\$25.00	\$625.00
FOUNDATION	12.5	YD	\$25.00	\$312.50
FOUNDATION	6.25	YD	\$25.00	\$156.25
FOUNDATION	3.125	YD	\$25.00	\$78.125
FOUNDATION	1.5625	YD	\$25.00	\$39.0625
FOUNDATION	0.78125	YD	\$25.00	\$19.53125
FOUNDATION	0.390625	YD	\$25.00	\$9.765625
FOUNDATION	0.1953125	YD	\$25.00	\$4.8828125
FOUNDATION	0.09765625	YD	\$25.00	\$2.44140625
FOUNDATION	0.048828125	YD	\$25.00	\$1.220703125
FOUNDATION	0.0244140625	YD	\$25.00	\$0.6103515625
FOUNDATION	0.01220703125	YD	\$25.00	\$0.30517578125
FOUNDATION	0.006103515625	YD	\$25.00	\$0.152587890625
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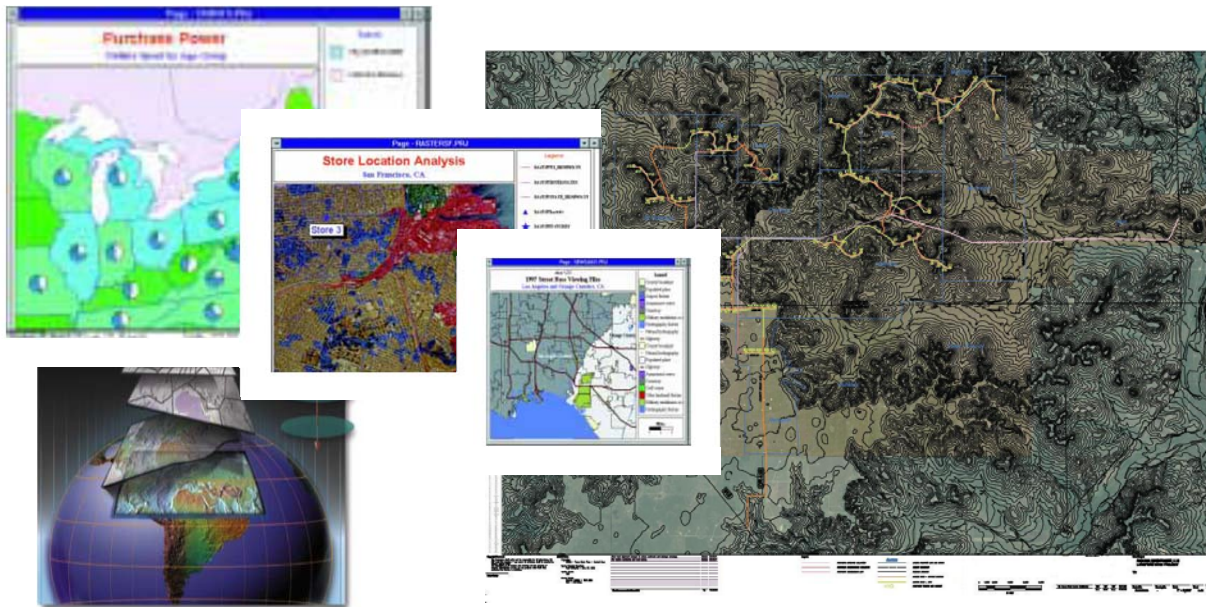
Professional Services

GPS/GIS Data Collection

- GIS Data Search
- Base Map Compilation
- Field Site Reconnaissance
- Digital File Support
- Route Documentation
- Exhibit Preparation



Field Site Reconnaissance



GIS Data Search and Base Map Compilation



Civil 3D



GIS



Google Earth



Adobe PDF

Digital File Manipulation and Support

Key Personnel

Paul Fisher, PE, President

Credentials

- Bachelor of Science, Civil Engineering, San Diego State University, California
- NCEES Certified, Record No. 37350
- Professional Engineer (PE), Multiple States



Introduction

Mr. Fisher has twelve years of well-rounded experience in land development. His overall knowledge of development from the inception of a project to site construction plays a major role in the success of the projects he has been involved in. Efficiency, communication, and team organizational skills are key components of the everyday management of his projects.

Civil Engineering Design Experience

Mr. Fisher has dealt with all aspects of engineering design including: access roads, slopes, swales, brow ditches, pads, desilting basin design, riprap sizing, and multiple types of free standing and retaining walls. He has utilized Land Desktop to create terrain models from elevated AutoCAD entities and contours, these terrain models were then be used to perform elevation tracks, earthwork analysis, cut/fill maps, and 3D model rendering. His capabilities extend to analyzing soils reports to understand slope stability, buttressing, and sub-drains. He has designed a multitude of improvements including: roadway design, parking lot design, sewer, water, and storm drain.

GIS / Geospatial Analysis

Mr. Fisher is an expert in online spatial data mining and file type conversion from various formats to a usable end product (3D topographical information, infrastructure, census, etc.). He is capable of manipulation of raw spatial data towards the compilation of aesthetically pleasing base maps and project exhibits for all types of uses. Able to gather field information gathering exercises with GPS units in order to gain more accurate project information making base map compilation and project exhibits more accurate in nature. He has a high understanding of coordinate system geometry and coordinate geometry manipulation. (System, Datum, Projection, Zone, Units)

Mapping and Surveying Experience

Mr. Fisher is well versed in mapping and survey services; his expertise includes involvement with project acquisition and preliminary research both at city offices and county offices. He has created record boundaries for projects to tie into panels for aerial topography. Also, dealt with title reports, title officers, plotted easements from title reports, created final maps, and parcel maps under supervision of a licensed surveyor. He understands Plats, Legal Descriptions, Traverses, and ALTAs – Created plats for easements and dedications, wrote legal descriptions to describe easements and dedications, used AutoCAD parcels menu to print traverses, and created ALTA documents from title reports, maps, and exception documents.

Project Management/Leadership Experience

Mr. Fisher has responsibility for high level operations within the company. He is accountable for daily client communications, sub-consultant coordination, team organization, technical accuracy of plans, as it relates to all engineering matters. Along with key personnel he has been instrumental in building a company from the ground up including templates for proposals, invoices, marketing, contracts, AutoCAD standards, and consistency in delivery. Also, he is responsible for the international expansion of the business including operations in our East Africa initiative for humanitarian efforts and quality of life improvement through the engineering and development of transportation hubs within East Africa.

Key Personnel

Jason Carlson, Vice President

Credentials

- Bachelor of Science, Civil Engineering, Walla Walla College, Washington
- Major: Civil Engineering
- Minor: Mathematics



Introduction

Mr. Carlson has a bachelor's degree in civil engineering with an emphasis in mathematics. Over the years, he has been directly responsible for the design, processing and construction management of many large scale civil engineering projects. As a result, he has developed strong leadership skills, problem solving skills, technical/analytical skills, planning and time management skills as well as the ability to apply creativity and critical thinking. In addition, his past performance demonstrates his ability to maintain high efficiency and technical accuracy while working in high pressure work environments.

Geographic Information Systems and Mapping (GIS)

Mr. Carlson has worked with large 3-D data sets and computer models in order to produce topographical maps, site overlay maps, right-of-way maps, detailed earthwork analysis etc. His GIS expertise has evolved from isolated database and modeling software, to a global AutoCAD Map (a bridge to ArcView) platform. Both his GIS related skills along with high level mapping software allow him to manage and process most common data formats.

Computer Aided Engineering

Mr. Carlson is proficient in CAE functionality and specializes in utilizing this technology within a Computer Aided Design (CAD) environment.

Civil Engineering Design Experience

Mr. Carlson has significant hands-on experience relating to residential, commercial and industrial civil engineering projects. In the last 3 years he has primarily worked in the desert regions of Southern California expanding his knowledge and experience to include many municipalities and agencies within the Mohave Desert Region.

Key Personnel

Richard J. Poole, PE, Project Engineer

Credentials

- Bachelor of Science, Civil Engineering, The Pennsylvania State University, Pennsylvania
- Engineer in Training (EIT), Pennsylvania
- Professional Engineer (PE), RCE No. PE-053020-E, Pennsylvania
- Professional Engineer (PE), RCE No. 71869, California



Introduction

Richard Poole has over twenty five years of civil/structural engineering and GIS experience, of those years, fourteen have been on the structural design side and four have been on the land development side. His extensive experience, along with his organizational skills, communication skills and commitment to design accuracy, make him a valuable asset to any project.

Civil Engineering Design Experience

Mr. Poole has designed many items as they pertain to land development projects including: rough grading, precise grading, roadway design, signing/stripping, water, sewer, and storm drain. He is a proponent of preparing Design Requirements prior to project commencements, in order to maintain consistency and accuracy throughout the design of the project. His knowledge of AutoCAD, Land Desktop has enabled him to create plans & profiles, horizontal & vertical roadway alignments, roadway templates, and digital terrain models for grading & earthwork purposes.

Structural Engineering Design Experience

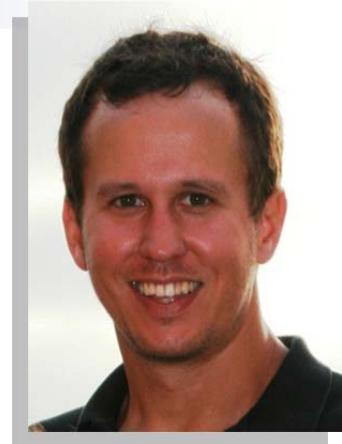
Mr. Poole has prepared design calculations for a variety of structural materials, i.e., reinforced concrete, precast/prestressed concrete, reinforced masonry, structural steel, and timber. His designs have included but are not limited to the following: buildings, pedestrian bridges, elevated train platforms, foundations, drainage structures, timber fishing piers, and retaining walls.

Key Personnel

Colin Huntemer, MS, PE, Water Resources Engineer

Credentials

- Bachelor of Science, Computer Science, Wentworth Institute of Technology, Massachusetts
- Master of Science, Civil Engineering, Water Resources San Diego State University, California
- Professional Engineer (PE), RCE No. 73989, California



Introduction

Colin Huntemer has over fifteen years of experience providing drainage analysis and design support for land development projects. He is an expert in local and regional requirements for water resource engineering as it pertains to hydrology, hydraulics, storm water quality and quantity. As a drainage engineer, Colin utilizes his two complementary degrees in Computer Science and Civil Engineering to provide Projection Engineering with the technical design and modeling support for all drainage aspects of their land development projects.

Prior to coming aboard Projection Engineering, Colin worked for Stantec Consulting and AECOM, both large multidisciplinary civil engineering firms. Before moving to San Diego and entering the civil engineering industry Colin worked in Boston where he developed scientific modeling software.

Drainage Engineering Analysis and Design

Colin Huntemer has a technical expertise for water resource projects involving hydrology and hydraulics. He has extensive work in preparing drainage studies and contributing to preliminary site design and planning as it pertains to water quality and quantity. Technical abilities include:

- Infrastructure design, culverts, storm drain systems, inlets, weirs and spillways
- Low-water crossings, Arizona crossings and Fords
- Erosion control, roadway stabilization, floodplain embankment protection and revetment
- Flood control, detention basins and flood routing
- Water surface profiling, hydraulic modeling and floodplain delineation
- Watershed analysis, hydrologic analysis for peak flood determination and flood hydrographs

Modeling Software

Colin has experience preparing numerical models using a variety of project appropriate software suites provided by HEC, Haestad, Bentley, USGS, NRCS and ESRI. Although federal and commercial software are widely used and generally accepted, Mr. Huntemer also is knowledgeable in smaller, locally developed methods and technical publications that can be more prudent for project specific requirements. Projection Engineering's modeling capabilities include the following: HEC-RAS, GEO-HEC-RAS, GEO-HMS, HEC-HMS, HEC-RAS, HY-8, HYDRAIN, Sewer-CAD, Storm-CAD, WSPGW and TR-55.