

Doug Spurling

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PROFESSIONAL EXPERIENCE

CAD Manager / Design Drafter

Recurrent Energy (San Francisco, California) July 2013 – present

Recurrent Energy is a solar powerplant developer that designs, develops, manages and operates utility-scale powerplant projects worldwide.

My responsibilities:

- Manage all aspects of CAD and CAD standard for engineering department
- Model land development, mechanical, and electrical features of existing and proposed powerplant projects in AutoCAD
- Produce electronic and paper drawings of powerplant projects
- Manage engineering department file structure
- Act as main liaison between engineering and GIS departments

Drafter / CAD Modeler / LiDAR Modeler

Towill (San Francisco and Concord, California) August 2011 – January 2012 [contract]

Towill provides geomatics, surveying, mapping, and GIS services nationwide.

My responsibilities:

- Process LiDAR point cloud data to produce 3D models of terrain, vegetation, and electric utility features
- Produce and edit 3D models of Caltrans highway projects and surrounding watersheds
- Train other Towill personnel in AutoCAD procedures, practices, and standards

Drafter / Designer

Capstone (Quincy, California) June 2008 – May 2013 [part-time, contract]

Capstone is a California General Building Contractor that specializes in the design and construction of commercial and agricultural buildings, and in site management.

My responsibilities:

- Design buildings to meet client requirements
- Model proposed structures in AutoCAD to communicate with clients, structural engineers, and suppliers
- Produce electronic and paper documents for building construction
- Survey utilities and other project and property features and produce drawings and maps as needed
- Assist with all aspects of project management
- Assist in the field with building construction

Cartographer / GIS Technician

GeothermEx (Richmond, California) April 2007 - February 2008

GeothermEx provides financial, geoscience, and consulting engineering services to geothermal powerplant developers worldwide.

My responsibilities:

- Research active and proposed geothermal projects
- Produce 3D models of subsurface drilling fields and subsurface heat flows
- Produce electronic and paper maps of geothermal project areas
- Maintain and update the GeothermEx map database and library
- Design and maintain the GeothermEx office CAD standard

Drafter / Designer

BAI Engineering (San Francisco, California) January 2006 - March 2007

BAI is a small civil engineering firm that specializes in the design of grading, drainage, underground utilities, and retaining walls for residential and commercial projects.

My responsibilities:

- Analyze projects drawings and reports from architects, surveyors, and geotechnical engineers
- Design the grading, drainage, retaining walls, and underground utilities
- Draw the civil sheets in AutoCAD to BAI drafting standards
- Maintain and update the civil sheets in response to design changes and jurisdiction comments
- Write responses to jurisdiction comments
- Assist with the design and maintenance of BAI's office CAD standards

Drafter / Designer

GSI / Bioscapes (Graeagle, California) June 2004 - January 2006

GSI is a California General Building Contractor and General Engineering Contractor that designs and builds large, high-end subdivision and landscaping projects and environmental remediation projects, and designs and builds commercial and residential structures.

My responsibilities:

- Survey property / topographic features of project areas using laser Total Station or GPS equipment
- Model these features for submittal to consulting engineers and regulatory agencies
- Coordinate subcontracted engineers to guide projects through the planning and building processes
- Coordinate building designers with structural engineers to produce finished building designs
- Produce electronic and paper construction documents of proposed project features for submittal
- Design and maintain the GSI office CAD standard

EDUCATION

University of California (Berkeley, California)

B. A., honors program in Film Studies, with highest distinction (degree awarded May 1999)

Academy of Art University (San Francisco, California)

M. Arch program, coursework (degree not completed)

SOFTWARE / HARDWARE

- Autodesk AutoCAD 2000/2014 – expert (14 yr)
- Autodesk AutoCAD Map 3D 2000/2014 – expert (3 yr)
- Autodesk Raster Design 2008 – expert (2 yr)
- Adobe Photoshop CS5 – expert (6 yr + coursework)
- Carlson Survey 2000/2006 – expert (3 yr)
- Carlson Roads 2006 – intermediate (1 yr)
- Carlson SurvCE – intermediate (2 yr)
- Sokkia SET-10 Total Station – intermediate (2 yr)
- TopCon HiPerLite Plus PZL-1 GPS base station/rover – intermediate (1 yr)
- Bentley Microstation V8i – intermediate (1 yr)
- Terrasolid TerraScan/TerraModeler 011 – intermediate (1 yr)
- Plexscape Plex.Earth 3 – intermediate (1 yr)
- CNC Software Mastercam x6 – intermediate (2yr + coursework)
- Autodesk CAiCE 10 – beginner (1 yr)
- Power Line Systems PLS-CADD v12 – beginner (1 yr)
- ESRI ArcMap 10.2 – beginner (1 yr + coursework)

REFERENCES

available on request