

**Stephen G. Rutzen, PLS**  
6756 Sunny Alp Street  
Colorado Springs, CO 80923  
(719) 570-9275 home  
(719) 200-5326 cell  
[steverutzen@hotmail.com](mailto:steverutzen@hotmail.com)

## **Professional Organizations and Licenses**

- **PLS – January 2008**
- **LSI – April 1999**
- **PLSC Southern Chapter Membership**
- **Current Colorado Drivers License**

## **Qualifications**

- 29 years of progressive experience in the surveying/engineering profession.
- Office experience including: 1. Interacting with clients. 2. Proposals for construction and boundary projects. 3. Boundary research. 4. Scheduling of field crews. 5. Downloading conventional and GPS field data and processing. 6. Traverse closures. 7. Section breakdowns. 8. Line driven topography. 9. Staking point data exhibits for field crews. 10. Calculations for all plats. 11. Legal descriptions. 12. As built plots. 13. Site survey plots. 14. Writing reports for engineering on construction observations for accurate plan construction – to include field observation
- Field experience including: 1. Horizontal and vertical control networks using both conventional and GPS equipment. 2. Line driven topography. 3. ALTA surveys. 4. Right-of-way. 5. Boundary. 6. Subdivisions. 7. Infrastructure. 8. Highway grading and paving layout. 9. High accuracy leveling surveys. 10. Aerial photo control layout. 11. Bridge layouts. 12. Building grid line layouts. 13. As built surveys
- Strengths in data collectors: 1. Trimble TSC1. 2. HP-TDS 48
- Instrumentation Experience: 1. Trimble GPS. 2. Topcon. 3. Nikon and conventional differential leveling
- Proficient with: 1. AutoCad 2008 Version. 2. AutoCad LDD. 3. Trimble Geomatics Office Systems. 4. Excel. 5. Word

## Employment

### **JR Engineering/Colorado Springs Office**

4310 Arrows West Drive  
Colorado Springs, CO 80907

2002-2008

Surveyor 1

Performed survey support for field & office staff on numerous projects along the Front Range. Assisted office personnel with tech support for the completion of projects involving boundary, plats, Alta surveys, condominium plats. Was responsible for office calculations, problem solving field layout, client management, scheduling for various projects in the Colorado Springs area. Provided tech support for field crews performing construction layout and boundary surveys. Assisted PLS in county & courthouse research for deeds, deposit plats and monument records for projects assigned to me.

2001-2002

Party Chief/

Survey

Assistant

Transitioned from Field Surveyor to Office Surveyor (Time spent in field=85% - Office=15%). Researched public records in Park, El Paso & Denver counties for BLM notes involving boundary work in these locales. Performed job scheduling with clients and lineout for survey crews. Prepared proposal bids for construction services, used computer systems AutoCAD 2002-2008 for support of survey crews, conducted numerous boundary and ALTA surveys, involved with several section breakdowns. Extensive use of GPS Trimble 4000 to 5800 series. Performed construction survey layout to include all utilities, boundary work, lot surveys, ILC's, house stakes, topo surveys, road layouts, etc.

1991-2001

Party Chief

Performed lot boundary surveys, house & utility layouts i.e. streets, water, sanitary sewer, storm sewer, etc. Provided calculations and traverses of various boundaries for Peregrine, Briargate & Mountain Shadows Developments. Worked on boundary survey in Elbert County. Performed various design surveys, topographic surveys. Worked on Airport runways in Colorado Springs. As-built and design surveys for business office complexes in and around Colorado Springs. Boundary control and layout of apartments and town home sites. Passed Land Survey Intern test in April 1999. Party Chief duties to include: various boundary surveys in Northgate and Tamarac Developments in Colorado Springs and Woodland Park, various surveys and layouts of roads and all aspects of utility layouts, design surveys, lot corners, monumentation of section corners, etc. Also some experience in using GPS system.

JR Engineering/Denver office

Denver, Colorado

9/90 to 2/91

Instrument

Operator

Worked on E-470 Bridge and street layout. Performed lot surveys and house layouts.

### **Valley Surveying**

Canon City, CO 81212

3/89 to 7/89

Party Chief

Performed boundary and mining claim surveys. Staked buildings on lots.

Worked on various subdivisions for purpose of subdividing into lots for houses. Promoted to Instrument Operator 1 year later. Operated Red 1 & Wild Theodolite. Performed Traverse procedures for subdivision of lots. Promoted to Party Chief from June 1986 to December 1988. Took control of party & performed construction surveys and lot corner staking within subdivision. Had part in surveying boundary of Peregrine.

**US Army**

8/76 to 8/82  
Artillery  
Surveyor

Trained at Ft. Sill, OK in November 1976. Began as Rodman Tapeman and advanced to Instrument Operator. Trained in Germany for 3 years. Recovered necessary boundary control and traversed to gun battery to acquire Azimuth and direction of fire. Used tape and chain with T-2 Wild Theodolite.

**Education**

- Southern Chapter Professional Land Surveyors of Colorado, Colorado Springs, CO – 2008 September Technical Session:
  1. GPS/GNSS & The Many Coming Changes
  2. Incorporating GIS Into Your Survey & Spatial Imaging
  3. New tools to improve your Surveying & GIS work
  4. Leica Geosystems Reference Station
- Southern Chapter Professional Land Surveyors of Colorado, Colorado Springs, CO – 2006 September Technical Session:
  1. Subdivision of Sectionals
  2. Alta Surveys
  3. Public Land Surveys Systems
  4. COGO the Old Fashioned Way
- BLM – Royal Gorge Field Office, Canon City, CO – Training Class in GCDB (Geographic Coordinate Data Base) – April 2006
- Central Colorado Professional Surveyors – Annual Conference – February 25-26, 2001 at Metro State College, Denver
- Pikes Peak Community College, Colorado Springs, CO – 3 semester hours – Intro to Auto Cad 2000 – September 2001
- Colorado School of Mines, Golden, Colorado – PLSC refresher course – January-March 1998
- Pikes Peak Community College, Colorado Springs, CO – 23 semester hours- December 1986 to September 1988
- Eisenhower High School, Blue Island, IL – Graduated 1976