Sanaz Poroushani

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PROFESSIONAL SUMMARY

I'm a GIS and geomatics professional with 5+ years of combined experience in infrastructure mapping, survey data integration, CAD/GIS workflows, spatial analysis, and data quality assurance. Building on my B.Sc. in Geomatics Engineering, I completed the academic portion of SAIT's Bachelor of Applied Technology in GIS with a 4.0 GPA to deepen my expertise in spatial analysis, automation, and web GIS. I use ArcGIS Pro, ArcGIS Online/Enterprise, Experience Builder, Python/ArcPy, FME, and ModelBuilder to transform complex spatial data into reliable datasets, clear maps, and interactive applications. My work spans engineering, infrastructure, and environmental projects, with a focus on solving practical problems and making geographic information accessible and useful.

TECHNICAL EXPERTISE

GIS platforms & web mapping: ArcGIS Pro, ArcGIS Online, ArcGIS Enterprise/Portal, Experience Builder, Dashboards, StoryMaps, Hub Sites, Field Maps, Survey123; geodatabases, web maps, static and interactive cartography

Spatial analysis & infrastructure data: raster/vector analysis, LiDAR DEMs, terrain modelling, proximity and overlay analysis, zonal statistics, network analysis, coordinate systems, topology and attribute QA/QC; engineering mapping

Automation & interoperability: Python, ArcPy, ArcGIS API for Python, Arcade, pandas, FME (ETL), SQL, PostgreSQL/PostGIS, ModelBuilder; repeatable geoprocessing, data validation, CAD/GIS interoperability and technical documentation

Engineering & environmental GIS: AutoCAD, Civil 3D, survey data integration, municipal wastewater and sanitary sewer network mapping, digital elevation models (DEMs), terrain surfaces, cut-and-fill analysis, PlanetScope imagery

PROFESSIONAL GIS & GEOMATICS EXPERIENCE

GIS / Survey Technician | ***MASFA (road construction projects)*** ***Jun 2017 – Oct 2020***

- Processed and mapped GIS, CAD, survey and engineering datasets for road infrastructure projects using ArcGIS and Python; delivered accurate maps and spatial information for multidisciplinary engineering teams.
- Integrated CAD, survey, and GIS datasets using FME ETL workflows; standardized coordinate systems, schemas, geometry, and attributes for consistent engineering mapping and analysis.
- Used ArcGIS Field Maps and Survey123 for mobile field data collection and processing.
- Performed spatial and attribute QA/QC on design and as-built infrastructure data; verified alignments, cross-sections, survey control and linework against engineering plans and documented discrepancies.
- Prepared terrain models and elevation surfaces from survey data, supporting road engineering, cross-section review, and cut-and-fill calculations; coordinated with surveyors and engineers to resolve data discrepancies.

GIS Technician / Cartographer | ***Ketab Avval*** ***Jun 2011 – Apr 2013***

- Maintained road-network and address geodatabases; used GPS tracks, imagery and field records for network analysis, topology validation, attribute QA/QC and accurate infrastructure base mapping.
- Georeferenced, digitized and edited spatial features, documenting corrections to support consistent, dependable foundational GIS datasets.

Geomatics Intern | Pars Ab Tadbir (Karaj, Iran) **Feb 2011 – May 2011**

- Drafted manholes, pipe segments and sanitary sewer alignments in AutoCAD from field survey points and design drawings; populated network attributes (manhole IDs, pipe diameter, material, length, invert and ground elevations).
- Checked pipe invert elevations and gradients against survey data and design drawings, flagging inconsistencies to engineers for review.
- Converted CAD sewer network drawings into GIS layers, standardizing coordinate systems, layers and attribute fields; supported plan/profile and network map preparation with surveyors and engineer

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SELECTED GIS PROJECTS

Enverus TAKEPOINT | SAIT Industry Capstone, Project Manager **May – Aug 2026**

- Developed Python/ArcPy processing and validation workflows for a project targeting approximately 12,000 oil-well survey PDFs; Tesseract OCR yielded 1,179 high-confidence records for further coordinate review.
- Validated extracted coordinates, transformed NAD27 coordinates to WGS84, and compared mapped well locations with reference data; flagged discrepancies beyond a 40 m review threshold.
- Used proximity and overlay analysis to evaluate well-lateral overlap within drilling spacing units and support adjusted production estimates.
- Led team coordination and technical deliverables for Enverus; communicated spatial results through ArcGIS Experience Builder and Dashboards applications and analyzed PlanetScope imagery to identify potential production ponds.
- Prototyped an AI-assisted PDF plat extractor that transformed survey coordinates and attributes into reviewable, GIS-ready JSON.

Calgary Rooftop Solar Suitability | *SAIT GIS Analysis Project* *2026*

- Integrated LiDAR-derived digital elevation models (DEMs), building footprints, solar radiation, and demographic data in ArcGIS Pro to assess rooftop solar suitability across Calgary communities.
- Validated raster, vector and tabular datasets; used ModelBuilder, zonal statistics and spatial clustering (Moran's I, Getis-Ord Gi*) to evaluate geographic patterns and ensure reproducible results.
- Produced thematic maps and an ArcGIS StoryMap presenting the analysis, methods, limitations, and findings for technical and non-technical audiences.

CUSTOMER SERVICE & ADDITIONAL EXPERIENCE

Personalized Internet Assessor | *TELUS International* *Apr 2023 – Mar 2025*

- Evaluated high-volume online information for accuracy, consistency and relevance against detailed standards; documented decisions and met independent quality and delivery targets.

Sales Manager – GPS Technology | *Rahnegar Group* *Jul 2013 – Jun 2017*

- Provided customer support for Garmin GPS devices, digital maps, and positioning technology; explained technical information clearly to non-technical customers and resolved their questions in a timely, professional manner.

EDUCATION & PROFESSIONAL DEVELOPMENT

Bachelor of Applied Technology, Geographic Information Systems | SAIT – academic coursework completed; GPA 4.0; practicum remaining

Bachelor of Science, Geomatics Engineering | Shahid Rajaee University

Higher Diploma, Civil Photogrammetry | N.G.O. University

Training: Building Geoprocessing Models Using ArcGIS Pro (Esri); Esri deep learning/feature extraction training; GIS Mapping for Solar Energy (Relay Education); Python programming (MIT coursework)

Certifications: WHMIS; CPR