

Sergi Alvarez Guasch

600 853 521 - sergiguasch83@gmail.com

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<https://www.linkedin.com/in/sergi-alvarez-guasch>

08027 Barcelona - *Driving license B - own vehicle*



MAIN ROLES
Junior Data Analyst,
QA Engineer &
GIS Technician

EXPERIENCE

2022 CARTO. Remote **QA engineer**

- ✓ Testing new features and iterate with teams to ensure the highest quality of the platform.
- ✓ Propose and implement automated tests to cover missing areas
- ✓ Creating all types of maps consuming data from different data sources
- ✓ Spatial Analysis using SQL - BigQuery, Snowflake, RedShift, PostGres, DataBricks

2020 – 2022 Solucions Geogràfiques. Barcelona **GIS technician**

- ✓ GIS analysis of the land to find out the feasibility and the best location for the layout of a high voltage line and a wind farm, using more than 30 variables to study the alternatives.
- ✓ Management, analysis and collection of data on pollution levels prior to traffic calming from 35 points.
- ✓ Coached a team and digitized with CAD tools a new cartography for more than 100 terraces of Barcelona due to the new regulation marked by the pandemic.

2017 – 2020 GEOMEDI – *Surveying Digital Studio*. Barcelona **Surveying technician**

- ✓ Analyzed data, developed projects and technical reports.
- ✓ Management, analysis and transformation of the data obtained on the ground (GPS, TCR, laser-scanner).
- ✓ Topographical surveys, stakeouts, georeferencing, and delineation of 2D and 3D plans using Microstation.

2015 – 2016 Zirkonzahn Worldwide. Italia **CAD/CAM technician**

- ✓ Technical support through CAD/CAM software.
- ✓ Management, order processing and offers. Managed budgets or involved in organizational planning.
- ✓ Representation at events and exhibitions advising and resolving technical issues to more than 30 clients from Spain and Portugal.

2011 – 2012 C.R.E.A.F. Barcelona **GIS & Remote Sensing technician**
2009 – 2010 Observatori Socioambiental de Menorca - IME. Maó **GIS technician**

- ✓ Digitised Land Cover Map of Catalonia (MCSC). GIS analysis, geometric, radiometric and photogrammetry corrections of satellite images.
- ✓ Collaborated in a team and digitised Land Cover Map of Menorca. Territorial and landscape analysis, as well as the treatment, processing, transformation and analysis of satellite images.

EDUCATION

2023 Application programming **Web Map** – Frontend (**Leaflet / OpenLayers**) UdG - UNIGIS
2022 **Data Analytics Bootcamp**. Python, SQL, Power BI, Tableau, Machine Learning. IronHack
2020 **Professional Master in GIS. Specialization in Geospatial Analysis** UdG - UNIGIS
2020 Programming **Python-PyQGIS**. MappingGIS
2013 Oriented Object Programming **JAVA 2SE & C++**. Centre d'Informàtica Professional - CIPSA
2011 **Master in Remote Sensing and Geographical Information Systems**. UAB - CREAM
2010 **Bachelor's Degree in Geography**. UAB

LANGUAGES, TECH SKILLS & PROJECTS

English	IELTS	National Tertiary Education Consortium (New Zealand, 2015) New Zealand Institute of Studies (New Zealand, 2014)
Spanish		Native or bilingual proficiency
Catalan	C1	Native or bilingual proficiency
Italian	A2	

GIS Technician – QGIS | ArcGIS | MiraMon | PyQGIS | PostgreSQL (PostGis) | CARTO | Mapbox | Microstation | Javascript | HTML | CSS

Data Analyst – Python | Power BI | Tableau | MySQL | Machine Learning | Pandas | NumPy | Scikit-learn | Matplotlib

<https://github.com/SergiGuasch/Projects.git>