

# Sergi Alvarez Guasch

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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	<b>National Tertiary Education Consortium (New Zealand, 2015)</b> <b>New Zealand Institute of Studies (New Zealand, 2014)</b>
Spanish		Native or bilingual proficiency
Catalan	C1	Native or bilingual proficiency
Italian	A2	

**GIS Technician** – QGIS | ArcGIS | MiraMon | PyQGIS | PostgreSQL (PostGis) | CARTO | Mapbox | Microstation

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

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