



ABOUT ME

I have experience in the tasks required during the complete life cycle of geographic data, with special emphasis on the implementation and maintenance of the necessary stack to consolidate Spatial Data Infrastructures (SDI).

I define myself as a person with a highly proactive profile and always ready for new challenges that expand my personal and professional horizon. I have knowledge in databases, web map servers, frontend development, data processing to obtain information and communication of Geographic Information.

MAURO ORTMANN

GIS ANALYST

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EXPERIENCE

GEOGRAPHIC INFORMATION SYSTEMS ANALYST

Freelance professional
October 2015 – Today

- On-demand surveying, processing and information generation for various Geospatial data industries.

TANDIL MUNICIPALITY

Manager – Geotechnologies division
January 2021 – Today

- Geographic Information Systems team manager.
- Responsible for Spatial Data Infrastructure (SDI).
- Management tasks.
- Front end development for team projects.
- Training for municipality personal.
- Support for geospatial based decisions.

EXPERIENCE

UNCPBA - SPACESUR - QUILMES MUNICIPALITY

Technical team member

December 2022 - Today

'Desafío IMPACTAR' N° 154 "Improve and expand the Territorial Information of the Municipality of Quilmes (Buenos Aires) for the optimization of the communal management of real estate and public trees"

- Identification of user and system requirements for solution implementation.
- Member of a multidisciplinary team in the elaboration of satellite solutions for Cadastre and identification and characterization of urban trees.
- Modeling of cadastral data for the optimization of registry and cartography.

UNIVERSITY OF THE CENTER OF THE PROVINCE OF BUENOS AIRES (UNCPBA)

Auxiliary teacher

August 2022 - Today

- Co-coordination of the Professional Practice Seminar, final subject of the Technician in Geographic Information Systems career. In this instance, students are accompanied during a professional experience within an organization that seeks to obtain Geospatial Information in a specific project.

UNCPBA - SPACESUR

Technical team member

March 2022 - Today

ANR partnership "National based geospatial technologie development for Goverment and Industry 4.0"

- Identification of user and system requirements for solution implementation.
- Member of a multidisciplinary team in the elaboration of solutions for Cadastre and identification and characterization of urban trees.

EXPERIENCE

UNCPBA - SPACESUR - CONAE

Technical team member

March 2022 - May 2023

PROSAT II Program "Development and implementation of a comprehensive satellite information system for urban management and planning in local governments."

- Identification of user and system requirements.
- Variables and data sources determination for product development.
- Python algorithms revise and development.
- System requirements check for compliance. System implementation.
- Maintenance plan document and user manual making.
- Training implementation for technical users.

UNCPBA - SPACESUR - CEPES

Content creator and training mentor

Octubre 2020 - Marzo 2023

- "Smart Municipalities Program. Geospatial Tools at the service of the construction of Government 4.0", with support from the Ministry of Productive Development of the Nation.
- Activities coordination with participants (5 municipalities).
- Creation and review of training contents in Geographic Information Systems and Remote Sensing.
- Activities evaluation.
- Real projects mentoring to apply transferred skills.

THE BLACK PUMA

GIS functional analyst

September 2021 - September 2022

- Spatial data analysis support and development of GIS processes in Python geospatial libraries for The Black Puma Ai, a company that built the solution that is currently implemented in the Ciudad3D project of the City of Buenos Aires for the automated calculation of volumes from the Urban Code.

EXPERIENCE

UNCPBA - SPACESUR - WORLD FOOD PROGRAMME | UNITED NATIONS

Training mentor

May 2022 - November 2022

- Training and consultancy program in Geographic Information Systems, Remote Sensing and cartography for emergency management on the webGIS platform based on Geonode 4.0.
- Consulting for the application of transferred capacities based on a real emergency case due to the passage of a hurricane in Central America.

PROJECTS AS FREELANCE PROFESSIONAL

- Survey of field topographic data, analysis and decision making in undertakings from the use of GIS.
- +100 photogrammetric survey projects to provide Geospatial Information to clients of industries related to agriculture, mining, hydraulics, research, Local and Provincial Government, surveying and engineering.
- Technical Reports making for presentation in legal proceedings.
- Geographical Databases implementation and administration for Government.
- Technical management in Geographic Information Systems for scenario evaluation projects in the execution of public and private works.
- Network analysis and topological verification of entities in Databases.
- External consultancy in geodata analysis and remote sensing for public service projects.
- Evaluation of procedures and implementation in GIS.
- Geostatistical analysis and Information generation. Preparation of geostatistical sampling. Analysis and presentation of results.
- Development of Thematic Cartography for projects.
- Technical documentation drafting for procedures, reports and results.
- Training of private business personnel and public government agents in Geographic Information Systems and Spatial Data Infrastructures.
- Public communication of science and technology.
- Participation in the direction of R&D projects in public organizations.

EDUCATION

GEOGRAPHIC INFORMATION SYSTEMS TECHNICIAN

Human Sciences Faculty – University of the center of the province of Buenos Aires.
Tandil. 2016

DIPLOMA IN DIGITAL ELEVATION MODELS (DEM) FOR THE MORPHOLOGICAL TERRAIN ANALYSIS AND GEOGRAPHIC INFORMATION SYSTEMS (GIS)

Philosophy Faculty – Buenos Aires University. Sholem School.
Buenos Aires. 2019

SKILLS

- Project management.
- Problem resolution.
- Analytic thinking.
- Geospatial analysis.
- Results communication.
- Ability to work in a multidisciplinary team.
- Constant skills upgrade.

TECHNOLOGIES

GEOGRAPHIC INFORMATION SYSTEMS

- QGIS
- ArcMap
- ArcGIS Pro
- Global Mapper

WEBGIS | Display | Management

- ArcGIS Online
- GeoNode 4
- ArgenMap
- Geoserver
- Geonetwork

DATABASES

- PostgreSQL
- PostGIS
- PgAdmin
- MySQL
- Workbench

BUSSINESS INTELLIGENCE

- Metabase
- Microsoft Excel
- Power BI
- IBM SPSS

PROGRAMMING RELATED SKILLS

- HTML
 - CSS Tailwind | Bootstrap
- JavaScript
 - Leaflet
- Python
 - Geopandas | NumPy | Plotly Folium | Jupyter notebooks
- R
 - RMarkdown | Flexdashboard dplyr | sf | DT
- SQL

OTHERS

- JIRA | Redmine | Trello
- GitHub
- Visual Studio Code | RStudio
- XAMPP
- AutoCAD Civil 3D
- Trimble Business Center
- Pix4D