



GAMA GEOFÍSICA  
C/ Castillo de Fuensaldaña 2  
28232 Las Rozas de Madrid  
Madrid - SPAIN  
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## **Francisco Cabezas De la Faya    Geophysicist**

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- **Licenciatura en Ciencias Físicas (Physics Sciences Degree), speciality in Geophysics**, in the Faculty of Physics of the Complutense University of Madrid (UCM) (2008).
- Course **Analista de Laboratorio de Ensayos Geotécnicos (Laboratory analyst of geotechnical tests)**, Technical School of Civil Engineering of the Technical University of Madrid (2008).
- Course **Energías renovables y desarrollo sostenible (renewable energies and sustainable development)**, General Foundation of the Complutense University of Madrid (2006).

<h3><b>PROFESSIONAL EXPERIENCE</b></h3>
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**2011-2018.** Geophysicist in **GAMA GEOFÍSICA, S.L.**

**2009-2011.** Geophysicist in **GEOGNOSIA, S.L.L.**

**2009.** Geophysicist in **GEOFÍSICA CONSULTORES S.A.**

**2008.** Geophysicist in **GEOGNOSIA, S.L.L.**

**2008.** Geophysicist in **GEOMYTSA.**

Involvement in more than 200 projects of geophysical prospecting. The main areas of interest in the development of these projects were the following:

- **Civil engineering:** Roads, highways, railways, high-speed railways, tunnels, dams, and pools, channelling, electric sub-stations, power stations, ...
- **Geotechnics and construction:** Geotechnic knowledge of structures, construction forensics, location of cavities or anomalous areas in foundations, ...
- **Hydrogeology:** Location of lithologies which are potential aquifers, better hydrogeological understanding of different areas, agronomy studies, research in wetlands and reservoirs, definition of marine intrusion, ...



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- **Mining:** Mining exploration, deep geological research for CO2 storage or geothermal energy, surface mining studies (quarry),...
- **Environment and archaeology:** Characterization of the mining pools, study of dumping sites, contamination studies, archaeological investigation, ...

## GEOPHYSICAL METHODS EMPLOYED

- **Seismic methods:** Refraction, surface wave (MAM, REMI, MASW 1D and 2D,...), downhole, crosshole, seismic tomography,...
- **Electrical methods:** Electrical tomography (ERT) and vertical electrical sounding (VES).
- **Electromagnetic methods:** Ground Penetrating Radar GPR, Time-domain Electromagnetic (TDEM), Magnetotelluric and Audio-Magnetotelluric (MT and AMT), light electromagnetic (EM-31 y EM-34),...