

# ALEJANDRO SANTANA

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## PROFILE

**SENIOR SURVEYING ENGINEER: Extensive experience in calculating earthmoving measurements and fitting of alignments in civil projects by civil engineering software.**

Fully qualified land surveyor with over 10 years experience, in on-site construction of public roads, highways, high speed-railways, surface and building work.

## PERSONAL DETAILS

- 34 years of age, single
- Nationality: Spanish
- Clean driving license

## Key Skills

- Extensive experience and knowledge acquired working for over 10 years in large civil projects, including as chief land surveyor and senior surveying engineer.
- Able to carry out topographical surveys and boundary surveys for any project.
- Proficient in handling Total Stations and Leica, Trimble or Topcon GPS equipment.
- Fluent in the use of DNA 03 digital level to execute high precision levelling work.
- Expert in Autocad Civil 3d and Inroads with Microstation V8i.
- Proficient in measuring earth movement and fitting alignments using Civil 3d, Inroads, and Ispol.
- I can handle the Amberg Track Trolley System and GRP System FX de Leica Geosystems.
- Calibration of surveying equipment such as Total Station and digital level.
- Extensive experience in performing construction staking in railways, motorways and surface works.
- Installation of targets on structures, tracks, pipes, drains and embankment monitoring.
- Carrying out digital terrain models for layouts of railways, highways and surface works.
- Extensive knowledge in Mapping, Photogrammetry and Geodesy.
- Efficient coordination and management of teams; meeting deadlines.
- I work well under pressure and also I always work well as part of a team.
- I am an orderly and productive person and also I have a strong analytical capacity.

## Achievements

- I have worked as a chief land surveyor on projects with a budget of over 78 million euros and carrying out technically complex work such as large viaducts, singular bridges, underpasses and the widening of sections to build platforms for technical maintenance (PAET) of high speed trains. I completed all work to within specified execution times.

- I have participated in the construction of an unique double-arched cable stayed bridge named IBN-Firnas with a budget of over 60 million euros in the south of Spain working as a structures surveyor and later as a chief land surveyor. I worked in extreme hot conditions and for that reason there were many technical problems due to the dilatation of the steel bridge, which I solved and met the deadline projected.
- I have worked for an important earth movement company where I carried out measurements for over 10 million m<sup>3</sup> on highways and railways work. I measured up to 1 million m<sup>3</sup> in one month along 30 km of project section. I completed the work to the specified deadline.

## Language Skills

- English - professional working proficiency. Upper intermediate written and spoken.
- Spanish - native language.
- I have good communication skills and high motivation for learning other languages.

## PC Skills

I am an expert user in surveying and civil engineering software for drafting layouts, fitting alignments and also conducting measurements earth movements.

Fully conversant with the following software:

- Autocad Civil 3d
- Inroads V8i – Power Civil – Power Inroads S3.
- Autocad
- Microstation V8i
- Ispol - Istram
- Clip
- Terramodel
- 3ds Max
- LGO - Leica Geo Office
- Trimble Business Center
- Office packages: Word, Excel, PowerPoint.

## EXPERIENCE

Dates: 04/2008 – 06/2012

Job Title: **CHIEF SURVEYING ENGINEER**

Company name: CONSTRUCTION SARRION S.A

Description of role:

I worked for over 4 years as a chief land surveyor on several large civil engineering projects such as a high-speed railway line. I organized the technical team and land surveyor crew.

Projects I completed for this company:

- High speed railway line (AVE) Palencia-Leon (Spain), subsection: Pozo de Urama - Rio Cea (20 km).
- High speed railway line (AVE) Madrid-Lisbon, (Spain), subsection: Merida - Montijo (16 km). 57.9 M€

Key responsibilities:

- I was responsible for topographical surveys, boundary surveys by handling Total Stations and GPS equipments of Leica, Trimble or Topcon brands.
- I organized land surveying crews in construction staking of structures and earth movement.
- I performed the calibration of surveying equipment: Total Station, Digital levels.
- I was responsible for calculating the coordinates of staking on viaduct-type structures, drainage frames, overpasses, underpasses and sections of earthwork.
- I carried out earth movement measurements on the project using design programs such as CIVIL 3d and INROADS.
- I fitted horizontal and vertical alignments of projects and creating profiles and cross sections of the design for drafting layout and measurement earth movements.
- I used the Amberg Track Trolley System and GRP System FX de Leica Geosystems for the assembly of rails in the remodeling of existing train stations in the project.
- I was responsible for modifying planes of the project and carry out as-built drawings.

Dates: 06/2005 – 04/2008

Job Title: **CHIEF SURVEYING ENGINEER**

Company name: INFRACIVIL S.L

Description of role:

I was subcontracted by DRAGADOS for 2 years as a chief land surveyor and primary field coordinator in a highway section which include a singular bridge IBN-Firnás. I organized the technical team and land surveyor crew.

Projects I completed for this company:

- Highway section of a new Airport Access at Cordoba (Spain), (7km). – Bridge construction IBN-Firnás.
- IBN-Firnás: a unique double arched cable-Stayed bridge. 60.8 M€

Key responsibilities:

- I was responsible for calculating the coordinates of staking on a piloted viaduct, the singular bridge IBN-Firnás, drainage frames, overpasses and sections of earthwork.
- I was responsible for topographical surveys, boundary surveys by handling Total Stations and GPS equipments of Leica, Trimble or Topcon brands.
- I organized the crews of land surveyor to execute the construction staking in structures and earth movement.
- I calibrated surveying equipment: Total Station, Digital levels.
- I carried out earth movement measurements on the project using design programs such as Autocad CIVIL 3d and ISPOL.
- I fitted horizontal and vertical alignments of projects and created profiles and cross sections of the design for drafting layout and measurement earth movements.

Dates: 01/2002 – 05/2005

Job Title: **SURVEYING ENGINEER**

Company name: EPSA INTERNATIONAL S.A

Description of role:

I worked for over 4 years as a land surveyor on several large civil engineering projects such as motorways and high speed railway lines. I worked in this great company that specializes in earthmoving and I carried out measurements of earth movement for the company.

Projects I completed for this company:

- Silver Highway (Via de la Plata): Fuente de Cantos Norte - Fuente de Cantos Sur (Spain), (14km), 35 M€
- High speed railway line (AVE) from Cordoba to Malaga; subsection: Santaella (Spain) - Arroyo del Ingeniero (12km).
- High speed railway line (AVE) from Cordoba-Malaga; subsection: Arroyo del Ingeniero - Herrera (Spain) (7km).

Key responsibilities:

- I was responsible for topographical surveys, handling Total Stations and Leica GPS.
- I was responsible for calculating the coordinates of staking on sections of earthwork.
- I carried out earth movement measurements for the project using design programs such as CIVIL 3d and INROADS.
- I calculated volumes from digital terrain models and profiles.
- I performed the calibration of surveying equipment: Total Station, digital levels.
- I controlled costs, quantifying production and carrying out the invoicing for the company.

## **EDUCATION & QUALIFICATIONS**

1997 - 2001 **SURVEYING ENGINEER**  
UNIVERSITY OF EXTREMADURA, SPAIN.

2012 - 2013 **DEGREE IN GEOMATICS AND TOPOGRAPHY ENGINEERING**  
UNIVERSITY OF LEON, SPAIN

2013 - 2014 **3D DESIGN APPLIED TO ARCHITECTURE, ENGINEERING AND PLANNING. 450 hrs.**  
Revit and 3ds Max Design - Sexpe. Consejería de Empleo, Empresa e Innovación. - Spain

2010 **TRAINING IN SAFETY AND HEALTH IN CONSTRUCTION 60 hrs. Basic Spanish Level**  
Foundation construction labour - Spain

2010 **TRAINING IN TECHNOLOGY OF CONSTRUCTION. LAND, CONCRETE AND FOUNDATIONS.**  
Foundation construction laborur - Spain

## **PERSONAL SUMMARY**

- Punctual, motivated, highly organized.
- Prepared to relocate.
- Adapts to new locations and multicultural environments.
- I have knowledge and interest in Mineralogy and Geology.