

ELENA GARCÍA

Electrical Engineer · Power Systems & Industrial Electrical Design

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ABOUT ME

Electrical Engineer with 4 years of experience designing and commissioning low- and medium-voltage systems for renewable-energy and building projects. Skilled in ETAP, AutoCAD Electrical, protection coordination and compliance with IEC standards and EU directives (LVD 2014/35/EU, EMC 2014/30/EU). Delivered 85 MWp of solar PV electrical design. Seeking an electrical design or power-systems role within an international European team.

WORK EXPERIENCE

02/2024 – Present

Madrid, Spain

Electrical Design Engineer

Iberia Energía Renovable S.A. · Business or sector: renewable energy (solar PV)

- Designed LV/MV electrical systems for **4 solar PV plants totalling 85 MWp**, including single-line diagrams, cable sizing and earthing (IEC 60364).
- Ran load-flow, short-circuit (IEC 60909) and protection-coordination studies in ETAP; cut cable losses by **1.4%** through optimised routing.
- Supported commissioning of **33 kV substations** and SCADA integration; achieved grid-code compliance (EU NC RfG) at first submission.
- Prepared BOMs and technical specifications for a **€12M** procurement package; coordinated 3 subcontractors.

10/2022 – 01/2024

Valencia, Spain

Junior Electrical Engineer

Levante Ingeniería Eléctrica S.L. · Business or sector: electrical engineering consultancy

- Designed low-voltage installations for **20+ commercial buildings** per Spanish REBT: distribution boards, lighting (DIALux) and emergency systems.
- Conducted energy audits (EN 16247) that identified average savings of **15%** in electricity consumption.
- Carried out site inspections, testing and as-built documentation; closed **95% of punch-list items** before handover.

EDUCATION AND TRAINING

2020 – 2022

EQF level 7

MSc in Electrical Engineering (Power Systems)

Universidad Politécnica de Madrid · Thesis: protection schemes for inverter-based power plants

2016 – 2020

EQF level 6

BSc in Industrial Electronics & Automation Engineering

Universitat Politècnica de València · Spain

Certifications

Certified Energy Auditor (EN 16247) – 2023 · AutoCAD Certified Professional – 2023 · IEC 61850 Substation Automation course – 2024

PERSONAL SKILLS

Mother tongue: Spanish

Language	Listening	Reading	Interaction	Production	Writing
English	C1	C1	C1	C1	C1
Portuguese	B1	B1	B1	A2	A2
French	A2	A2	A1	A1	A1

CEFR: A1/A2 basic · B1/B2 independent · C1/C2 proficient user

Communication: coordinates with clients, utilities and EPC contractors; writes clear technical reports in Spanish and English.

Organisational: manages design deliverables and document control for 4 concurrent projects; applies ISO 9001 and ISO 45001 practices.

Design & analysis	ETAP, AutoCAD Electrical, EPLAN (basics), DIALux, PVsyst, Revit MEP (basics)
Power systems	LV/MV design, load flow, short-circuit, protection coordination, earthing, substations, SCADA
Standards & regulation	IEC 60364, IEC 60909, IEC 61850, EN 50160, REBT, LVD 2014/35/EU, EMC 2014/30/EU, EU NC RfG
Digital skills	Information processing – Proficient · Communication – Proficient · Content creation – Independent · Safety – Independent · Problem solving – Proficient

ADDITIONAL INFORMATION

Community: volunteer, Engineers Without Borders Spain – rural solar electrification project (2023) · **Driving licence:** B