

# SANTIAGO CUADRADO TI

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Project and supply engineer with 4 years of cross geographical coordination across Asia and Latin America, translating complex projects into compelling and easy-to-understand stories. Process automation and digital solutions creator. Spanish, Mandarin, English speaker.

## EDUCATION

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<u>Massachusetts Institute of Technology - Global SCALE Network</u> <b>Graduate Certificate in Logistics and Supply Chain Management</b>	Cambridge, USA	Expected May 2019
<u>University of Zaragoza, ZLC (MIT-Zaragoza International Logistics Program)</u> <b>Master of Engineering in Logistics and Supply Chain Management (ZLOG)</b> Focus: Robotic process automation (RPA) and digital transformation	Zaragoza, Spain	Expected May 2019
<u>National Sun Yat-Sen University</u> <b>Bachelor of Science in Mechanical and Electro-Mechanical Engineering</b>	Kaohsiung, Taiwan	Sep 2010 – Jan 2015

## WORK EXPERIENCE

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Ingemetal Solar, Thermosolar power plants Spain & China Jul 2017 – Jul 2018  
**Country Expansion – Project Engineer**

- Customer management: Energy EPC contact for the company venturing into China. Portrayed thermosolar technologies resulting in €21M worth in signed contracts. Mediated with clients ensuring agreement on contract terms and project execution.
- Sourcing and partnerships: Initiated first contacts with strategic suppliers for parts valued at €15M, calculated manufacturing and routing cost, financial and capability assessments and specified tender requirements. Indirect procurement of automation components reducing costs by 30%.
- Process engineering: Manufacturing development, optimization, and reorganization of workstations using JIT methods, including timing calculations, workforce assignment, process diagrams, material and information flows.  
Dedicated coordination with software control developers for automatic product calibration. Studied China's regulations on temporary imports for these €3M assembly lines and clarified technology specifics for customs clearance.

ANT Precision, Automotive wiring and molding Mexico May 2016 – Mar 2017  
**Factory Setup – Team Lead**

- Strategy and legal affairs: Ownership of a \$2M expansion plan to open a new factory in Mexico, reporting to the CEO. Incorporated the company, registered at the tax bureau, opened bank accounts, applied for construction and operational permits.
- Process engineering: Mapped material flow requirements, machinery capacity, inventory levels, and space constraints to create factory layouts, including utilities, covering 2000m<sup>2</sup> with 35 CNC/semiautomatic workstations.
- Sourcing and partnerships: Established key partnerships with lawyers, customs brokers, accountants, insurance suppliers. Performed CapEx evaluations for new CNC machinery. Negotiated contract terms on a 10-year facility lease and subsequent installations: wiring, lighting, exhausts, compressors, AC, and partitioning.
- Relocation management: Managed the intricacies of bringing a non-English speaking team from China, arranged housing, food and immigration applications. Purchased vehicles, insurances, and organized team building trips.

ITRI Industrial Technology Research Institute Taiwan Jul 2014 – May 2016  
**Industry 4.0 – Systems Engineer**

- R&D Innovation: Designed an RFID positioning system which, besides products, tracked operators to enhance interoperability with machines. Chosen for patent application and presented at IEEE's Conference on Advanced Robotics and Intelligent Systems.
- Full-stack development: Programmed web-based HMIs for CNC machinery and assembly lines. Architected the underlying communication frameworks and protocols. Part of the IoT industrial team in charge of factory digitalization.
- Enterprise software development: Remodeled a CRM and project management system from the ground up for the International Center, digitalizing their workflows and tracking their affairs with global companies and research centers.

## ADDITIONAL

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<b>Patents</b>	: <a href="#">US10127420B2</a> "Location based situation awareness system and method thereof" Tech.: RFID, Web, IoT
<b>Languages</b>	: Spanish (Native), Chinese Mandarin (Bilingual), English (Fluent)
<b>Optimization</b>	: LLamasoft Supply Chain Network Design Certificate, AMPL, AnyLogic, RapidMiner, R, Python
<b>Software packages</b>	: Ui Path, AutoHotkey, ArchiMate, SAP One, Excel, Project, Visio
<b>Programming</b>	: Golang, SQL, PostgreSQL, HTML, CSS/SASS, JS, Linux, Routing, DNS, WebSocket, REST API
<b>Electromechanical</b>	: Manufacturing drawings, AutoCAD, DipTrace PCB Electronics design
<b>Citizenship</b>	: European Union, Spanish