Juan Marinero

Electrical Engineer

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https://github.com/juanMarinero

Personal statement

I am an Electrical Engineer Graduate of the University of Valladolid, Spain. I am an enthusiastic and highly motivated individual who has developed analytical thinking skills and the ability to work under pressure, both independently and as part of a team.

Some of my key strengths are:

- Languages. Native Spanish, high level (B2/C1) in German and English, and basic Mandarin.
- In the IT field, especially Python, Matlab, VBA, C and GNU/Linux shell (bash).
- Renewable energies, mainly in photovoltaics - Obtained throughout my academic degree, internships and self-taught.
- PLC (Siemens and Omron) and FACTS (Flexible AC Transmission Systems) - Learnt in an optional subject and my one year dissertation.
- Electrical market and efficiency through analytical study of consumption and tariffs.
- Communication and Adaptability - Achieved working since November in Edinburgh, in an international company and in a small coop in Spain, as well as an Erasmus in Munich.

My career goals are to improve my experience in the industrial sector as well as to contribute towards energy saving and efficiency systems.

Education

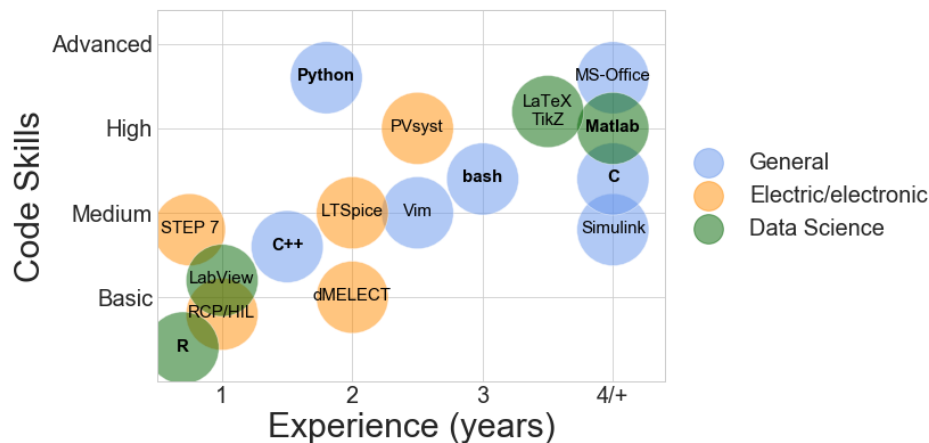### Electrical Engineer

University of Valladolid - Spain
August 2017

- 9.5/10 grade on a one year dissertation. The compensating device I developed attenuates harmonics (a legal requirement) while it keeps feeding the loads and reduce the reactive power exchanged with the grid (which saves money in the electricity bill).
- Erasmus in Munich (February – July 2015) in which I studied Automatization, C-language and GNU/Linux in German.

Languages

- Spanish   Native
- English   Fluent
- German   High intermediate level
- Mandarin   Basic

IT skills & certificates

	Course	Hours	Cert.
Machine Learning	Machine Learning by Andrew Ng ⬀	54	-
	Complete Python 3 Bootcamp ⬀	24	⬀
	Python for Data Science and Machine Learning Bootcamp ⬀	23	⬀
PLC	Wiring, Programming and Installation of S7-1200 PLC & HMI ⬀	18	⬀
	Factory I/O (Factory Automation using PLC Logics) ⬀	7	⬀
	Omron basic (Spanish) ⬀	40	⬀
Industry	Work Health \& Safety - Basic (Spanish) ⬀	8	⬀
	WHS - Electrical Hazards (Spanish) ⬀	20	⬀
	Environmental management system (Spanish) ⬀	60	⬀
	First Aid for non-health professionals (Spanish) ⬀	20	⬀

Work Experience

TPM Engineer in VARTA- Clarios. Burgos – Spain

Since May 2019

- PM (Preventive Maintenance) launch & analysis
- KPI monthly. I collected, studied and compared Key Performance Indicators (KPI) of production (efficiency, MTBF, MTTR) and Stocks.
- Update and write technical documents: Master Routines, BAE / TAE (Basic / Technical Attention to the Equipment), endurance tests, ...
- HPT-BAE Training & Tracking. I taught the new BAE to the High Performance Team. The Continuous Improvement Process department and I worked together also so that the production workers fulfil their maintenance work
- Everyday Software and IT Knowledge:
  • General Microsoft software. From Outlook's daily tasks to Advanced VBA.
  • Data query. SQL and Prisma have proven useful to serve for data collection, either with Excel or standalone. Real time information of production and of Machine errors were monitored by CMMS. With PowerBI we created fast reports and compared factories.
  • Machine Learning. Predictive maintenance was not implemented in these lines. So I made the first steps in this field to take advantage of its potential cost-savings results.

Kitchen Porter in Prestonfield (part time). Edinburgh – United Kingdom
November 2017 – June 2018
- I worked in five-star Scottish customer service business, where I was frequently under high pressure and self-initiative and communications skills are daily required.

Internship & Volunteering in EnergEtica. Valladolid - Spain
2016 – 2018
- EnergEtica is a Spanish renewable energy supply coop that works side by side with larger companies and coops, as for example, Som Energia and REScoop.
- I was the main Lead Developer of Gui-Matlab, a statistical software program employed in this project to analyse the electrical consume. Once selected any period of time and its €/kWh the software offers statistical tools and plots, as well as it calculates expenses to check if it is worth switching the light tariff and how to optimize consume.
- Other responsibilities included:
  - Educating consumers on how to save energy and be more environment-friendly, by explaining the electricity bills and tariffs and how to reduce kW contracted.
  - Helping the general public to understand the basics of electrical grid and how the Spanish electrical market works.

Internship in a Renault car factory. Valladolid - Spain
September 2014
- Internship scheme developed to provide young engineering talent with experience working across the different departments of an automobile factory. During this scheme I supported and was exposed to projects in departments such as logistics, stocks, industrial waste disposal, assembly plant, etc.

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Mindmap CV

Electrical Engineering

- 9 mos. **Dissertation**
- Smart Grid
- **Renewable energies**
- EnergEtica Internship
- Electrical market
- FACTS HVDC

Juan Marinero — Electrical Engineer

IT

- Matlab Simulink
- **Machine Learning**
- MS-Office VBA LaTeX-TikZ
- C/C++
- **PLC** Step7 Omron
- **Python**
- **Linux** bash

...

- Erasmus in **Munich**
- Self-initiative
- Experience in **Renault**
- Worked in **Scotland** 8 mos.
- Engineer **VARTA** batteries 6 mos.
- multifaceted & teamwork

Languages

- Spanish Native
- **English Fluent**
- **German High intermediate**
- Mandarin Basic

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