Juan Marinero

Electrical Engineer

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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-Simulink, C and GNU/Linux shell (bash).
- Renewable energies, mainly in photovoltaics - Obtained throughout my academic degree, internships and self-taught.
- 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.
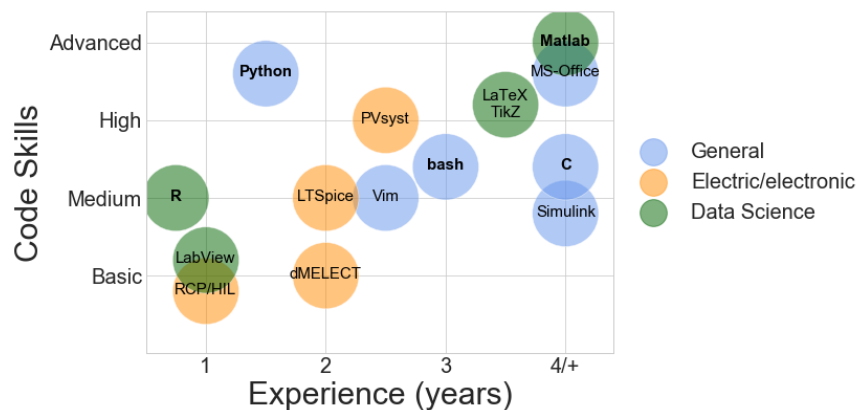
Education

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). Key skills I gained during this project include:
  - To be able to intelligently divide complex simulation tasks in small steps.
  - How to work with the feedback V-model of the systems engineering process.
  - Learn to take advantages of software's strengths, such as high level languages for quickly checking, or low for optimizing.

- Erasmus in Munich (February – July 2015) in which I studied Automatization, C-language and GNU/Linux in German.

IT skills & certificates

- Machine Learning by Andrew Ng ⬈
- Complete Python Bootcamp: Go from zero to hero in Python 3 ⬈
- Python for Data Science and Machine Learning Bootcamp ⬈
- Learn wiring, programming and Installation of S7-1200 PLC & HMI ⬈

Languages

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

Work Experience

Kitchen Porter in Prestonfield (part time). Edinburgh – United Kingdom

November 2017 – June 2018

- I worked in a customer service business, where I was frequently under high pressure and self-initiative and communications skills are daily required.

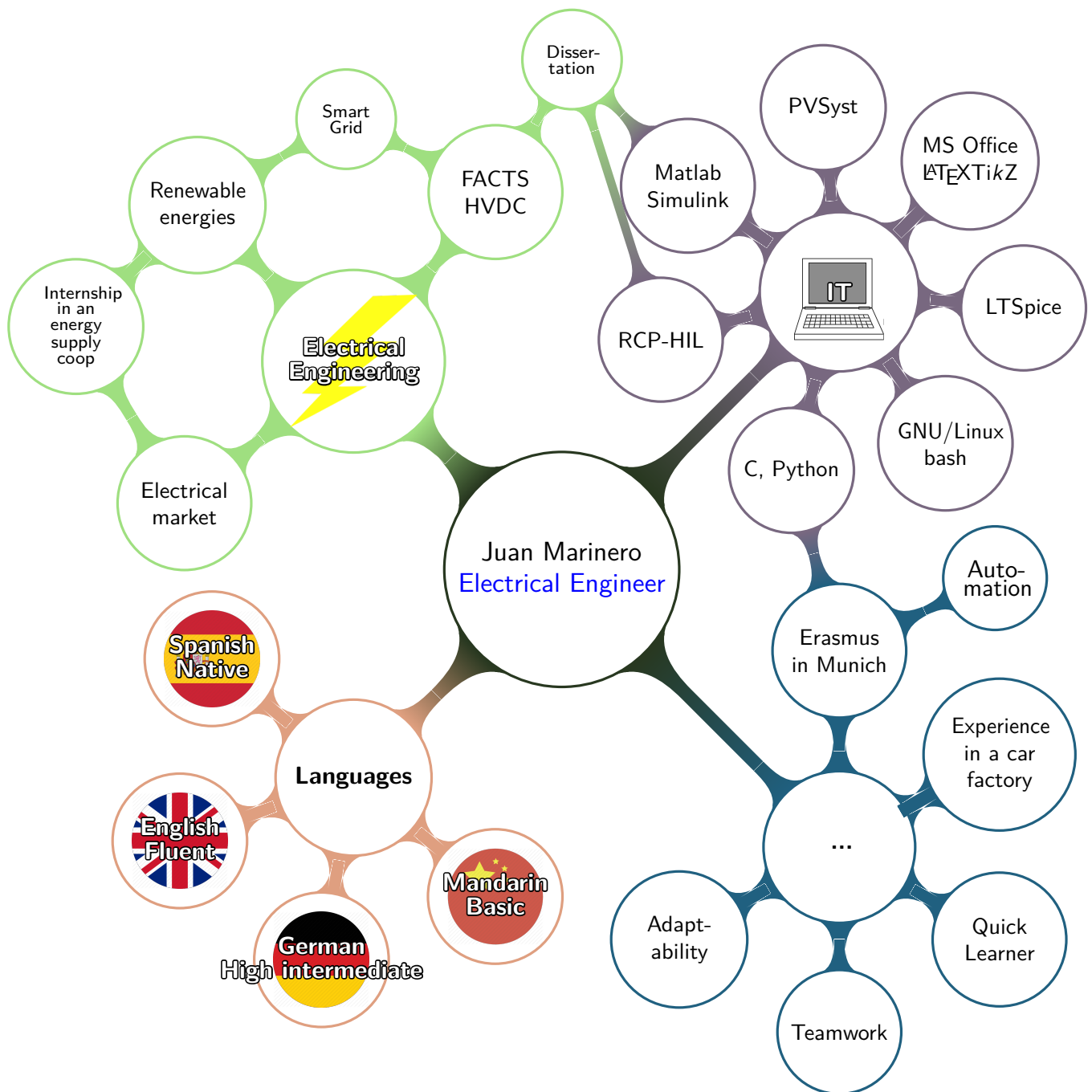### Internship & Volunteering in EnergEtica. Valladolid - Spain

2016 – 2018

- EnergEtica is a Spanish renewable energy supply coop with around 1300 electricity contracts and 1.4 GWh/year of hydraulic generation. This coop 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:
  - o 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.
  - o 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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Electrical Engineering
- Smart Grid
- Renewable energies
- Internship in an energy supply coop
- FACTS HVDC
- Dissertation
- Electrical market

IT
- Matlab Simulink
- PVSyst
- MS Office LaTeX TikZ
- RCP-HIL
- LTSpice
- GNU/Linux bash
- C, Python

...
- Erasmus in Munich
- Automation
- Experience in a car factory
- Quick Learner
- Teamwork
- Adaptability

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

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