

# Jaime Gonzalez Garcia-Bernardo

Calle Santa Susana 43, Piso 2, 33007, Oviedo, Spain

+34 616 954 194 | [jaimeggb@outlook.com](mailto:jaimeggb@outlook.com) | [linkedin.com/in/jaime-gonzalez-gb/](https://www.linkedin.com/in/jaime-gonzalez-gb/) | [jaimeggb.github.io/](https://jaimeggb.github.io/)

## EDUCATION

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### Imperial College London

September 2014 – June 2018

- *Master of Engineering in Mechanical Engineering* - Graduated with Upper Second Class Honours
- Business-related modules: Economics for Business || Technology, Business, and the Market || Technical Presentation Skills || Statistics || Management for Engineers
- Member of the Imperial College Consultancy Society

### English School of Asturias

September 2010 – June 2014

- *A Levels* - Mathematics (A\*), Physics (A\*), Chemistry (A), Spanish (A\*), Further Mathematics AS (A), Biology AS (A).
- Total of 660 UCAS points.
- *Spanish Baccalaureate* - Spanish Language and Literature (9), Spanish History and Contemporary History (9)
- *IGCSEs* - Mathematics (A\*), Science (A\*), Additional Science (A\*), Geography (A\*), French (A\*), English Literature (A\*), English Language (A), ICT (A\*), Spanish language (A\*)

### Online Education

February 2021 –

- *Projects* – Please visit my portfolio website for a full list and description of projects: [jaimeggb.github.io/](https://jaimeggb.github.io/)
- *Computer programming* – Obtained the following certifications from FreeCodeCamp (designed to take ~300 hrs each and require the completion of 5 projects on Replit each): Responsive Web Design (HTML & CSS) || Algorithms and Data Structures (JavaScript) || Front End Development Libraries (React.js, Redux.js, Bootstrap, jQuery, Sass) || Data Visualization (D3.js) || Back End Development and APIs (Node.js, Express.js, npm, MongoDB, Mongoose) || Quality Assurance (JavaScript, Chai, Node.js, Express.js, Pug, Passport, Socket.io) || Scientific computing (Python, SQLite, JSON, XML) || Data analysis (Python, SQL, Pandas, Numpy, Matplotlib, Seaborn, Jupyter) || Information security (Python & Helmet.js)
- *Artificial intelligence / machine learning* – Obtained the following certifications: Machine learning by Stanford || Deep learning specialisation by Deeplearning.AI || TensorFlow developer professional certificate by Deeplearning.AI || TensorFlow data & deployment specialisation by Deeplearning.AI || MLOps Specialization – Deploying Machine Learning Models in Production by Deeplearning.AI || Git & Github by Codecademy || Pandas by Codecademy || preparing for Google Cloud Professional Machine Learning Engineer certification by Google

## WORK EXPERIENCE

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### Deeplearning.AI

April 2022 – June 2022

- Worked as a Mentor at Deeplearning.AI, an education technology company in the AI sector
- Obtained job as a result of making “outstanding contributions to the Deeplearning.AI community”
- Responsibilities included:
  - Reporting technical and content issues and improvements on Gitissue
  - Supporting learners by answering queries on Discourse
  - Providing communication between Mentors/Staff

### Analysys Mason

September 2019 – September 2020

- Worked as an Associate Consultant at Analysys Mason, a global research and consulting firm in the Telecoms, Media and Technology (TMT) sector
- Projects included:
  - A commercial due diligence and business plan review of a local ultra-fast broadband operator in Spain to assess the opportunity for consolidation of small local broadband operators in the country.
    - The scope of the work included a review of the (ultra-fast) broadband market, both at the national and at the regional/local level; an assessment of the competitive landscape; and a commercial due diligence of the target company, including a review of its business plan
  - An engagement by a strategic advisory to conduct commercial due diligence of 1500 sites that were to be sold by Orange Spain as part of a competitive process.
    - A key aspect of our analysis was to review the market dynamics, including the impact of extensive active RAN-share deals.
    - Our review of the market translated in a ten-year forecast of the demand for mobile passive infrastructure in the market and the associated pricing that a towerco could charge for co-location.
    - Finally, our team used a database provided by the seller to conduct a desk-based assessment of the site portfolio, to understand its potential attractiveness
  - An engagement by a strategic investor for the commercial due diligence of an MNO in Spain.
    - The analysis required a complete review of the market dynamics, both in the fixed and mobile segments.
    - The team also relied on a customer research which was conducted by a specialized partner.
    - Finally the team supported the client in the business plan assessment

## Quick Release

May 2019– September 2019

- Worked as a Project Analyst at Quick Release, a global product data management consultancy and automation firm in the automotive industry
- Projects included:
  - Processing and presenting data using Power BI for British multinational automobile manufacturer Jaguar Land Rover on client site
  - Developing a scope of work between Quick Release and multinational automotive seating manufacturer Adient on client site

## RELEVANT SKILLS & TOOLS

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### Tools

- *Programming languages, frameworks & tools* – Python (TensorFlow, TensorFlow Extended, Keras, Pandas, Numpy, Matplotlib, Seaborn, SciKit-Learn, BeautifulSoup) || MATLAB and Octave || Javascript (Node.js, Express.js, jQuery, React.js, D3.js, Bootstrap) || HTML and CSS || SQL || LaTeX || Shell (Bash) for Debian Linux || Powershell for Windows || MongoDB & Mongoose (NoSQL database) || Kubernetes || Docker
- *Computer programmes and cloud platforms* – Google Cloud Platform || Solidworks || Excel || Word || Powerpoint

### Skills

- *Multilingual* – English - Fluent (C2 Proficiency aged 17, grade A, highest possible) || Spanish - Fluent (mother tongue) || French - Basic (GCSE A\*, A2 equivalent)
- *Adaptive* – Lived in four very different countries – England (London), Spain (Oviedo & Madrid), UAE (Dubai) and USA (Los Angeles)
- *Good communicator* – Have always been gifted at teaching concepts to others, mainly because I enjoy learning, structuring information rigorously and explaining things
- *Good desk researcher* – Consulting background has made me a top-grade information finder with google advanced search and duckduckgo search tools
- *Good teammate* – Have played team sports (rugby and football) all my life and have learnt to help teams thrive by maintaining winning habits, nurturing positive environments and exercising effective conflict resolution

## NOTABLE DEGREE PROJECTS

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### Final Year Individual Project

September 2017 – June 2018

- Project title: "Nitrogen-displaced Combustion in Diesel Engines"
- Worked with the Imperial College Mechanical Engineering Department together with Shell™ to investigate the potential use of nitrogen-oxygen membranes to reduce NOx and soot production in diesel engines
- Researched why the engine in one of the research team's experiments was hard to fire at high oxygen concentration and estimated how much nitrogen was being circulated in the experiment
- Developed a program using MATLAB to model and simulate the experiment
- Result:
  - Made two key observations that impacted the research team's direction
  - Work awarded A grade and submitted to be published by the International Journal of Engine Research

### Future Clean Transport Technology Group Projects

September 2017 – June 2018

- Project titles were: "Improving Engine Efficiency", "Turbocharger Matching" and "Modelling of Lithium Ion Batteries"
- Worked in a team of three and was elected project manager for the final two projects
- Set deadlines, motivated team members to meet those deadlines giving their best and synergised team with others
- Result:
  - Team grade improved by *at least* 10% since I was elected project manager, allowing us to achieve an overall A grade for the three projects

### Design, Make and Test Group Project

September 2016 – June 2017

- Project title: "SPIDER - Small Parametric Insectobots Designed for Extreme Reconnaissance"
- Worked in a team of five to develop a platform capable of mass producing fully customizable robots adept at traversing rough terrain for military purposes such as reconnaissance
- Optimised robot traction and managed the presentation of group work
- Investigated - then performed adhesion experiments with - six different robot wheel-leg coatings and wrote group presentation scripts, including the project's final presentation
- Result:
  - Produced three smartphone-controlled, mass-producible SPIDER prototypes.
  - Project's final presentation, my individual team contribution (including peer review) and project as a whole awarded A grades