Isproject

February 2002

KEY SKILLS
Results-focused Leader • Value Creation
Out of Comfort Zone • Holistic Planning

PROGRAMMING
C/C++ • Matlab • Java • Python
JavaScript • SQL

LANGUAGES
Bilingual **English**

Native **Spanish**

EXTRACURRICULAR

○ IoT Board Advisor at Aerothermix. Madrid (Freelance - Remote). Committed to balancing engineering company goals while helping the board find IoT technical solutions. Business portfolio across international markets over €8M/yr.

○ Certified Lifeguard, 28670 Madrid. (Part-time weekend - Onsite). Full responsible for monitoring 100% standards. Supervised team (+15).

AWARDS & HONOURS

○ **Official full-time scholarship:** Telecommunications Engineering Higher Technical School of Engineering, Universidad Pontificia Comillas ICAI, 28015 Madrid. *Scholarship awarded to 3% of the global official admissions of undergraduate students.*

○ **Honours degree:** Institute of Higher Education of Bilingual Baccalaureate I.E.S Calatalifa, 28670 Madrid. *Awarded as the Best High School Student: Ranked #1 out of 200. GPA: 3.9/4.*

IVÁN SÁNCHEZ-PÉREZ

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JUNIOR RESEARCH FELLOW

SUMMARY

Approach to the potential of the international ecosystem of disruptive technologies turning the spotlight on Machine Learning solutions and Artificial Intelligence. Expertise in Natural Language Processing techniques, Deep Learning and IoT. Quantum satellite communications technology. Digital communications paradigm shift: Quantum Key Distribution concept.

PROFESSIONAL INTERNSHIP

○ **Summer Full-Time Internship (Hybrid)**
LEXIC.AI
Jun 2021 - Sep 2021 • Madrid, Spain.
Benchmarked popular speech-to-text software: Google Cloud Speech-to-Text, Amazon Transcribe, IBM Watson Speech-to-Text, and open-source packages of Vosk, Sphinx, Espnet. Executed over €4M/yr project.

GRADUATE EDUCATION

○ **Full Four-Year Bachelor's Degree in Telecommunication Technologies Engineering**
Universidad Pontificia Comillas, ICAI. Higher Technical School of Engineering.
Sep 2020 - June 2024 • Madrid • GPA: 3'5/4.
Top leader in the results of undergraduate practices applied to engineering syllabus subjects (Academic years 2020-2024) such as:

- Software Engineering: Deployed E-Commerce app on SpringBoot, optimized page load time by 30% with SQL-based image storage.
- Object Oriented Programming: Developed a Java Bubble Shooter game, enhancing object detection accuracy by 50%.
- Computer Network Technologies: Achieved 80% network optimisation through the utilisation of OSPF, BGP, and RIPv2 protocols.
- Microprocessors: Built Bluetooth Radio Controller Car, improved control precision by 25% with 100m wireless range.

○ **International Research & Publications**
Universidad Pontificia Comillas, ICAI. Higher Technical School of Engineering.
Sep 2020 - Present • Madrid.
Sole international research student (Academic years 2020-2024):

Gender analysis of European job offers through NLP Techniques.
2023 World Congress in Computer Science, Engineering, & Applied Computing. Las Vegas. IEEE CPS. Authors: Puente Águeda, C., Sánchez Pérez, I., Gutiérrez García, E. & Olivas, J.A.
- Measured gendered correlations in a dataset of 30,000 job offers.
- Utilised NLP techniques, i.e. tokenization, Word2Vec, LDA, for preprocessing and data analysis.
- Enhanced transparency and clarified expectations by 90%.

NLP Study on Digital Job Offers.
Applied Sciences - MDPI. Authors: Puente Águeda, C. & Sánchez Pérez, I.
- Gathered job data from LinkedIn through web scraping.
- Determined the optimal number of clusters (k-means) using the elbow and silhouette methods.
- Achieved 100% diverse talent acquisition by improving the understanding of digital job offers.