



# Luis Quesada

## Senior Engineering Manager

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**SUMMARY** Engineering leader with expertise in defining and executing technical strategy, with a proven track record of building top-performing organizations. Led 70+ engineers to revamp five production areas across 50+ products, boosting engineering velocity and system reliability, performance, efficiency, and scalability.

**SKILLS** Systems: Architecture, performance, automation, monitoring, load balancing, capacity, and data integrity  
Artificial Intelligence: Infrastructure and solutions, applied Generative Multi-modal Models  
Computer Languages: Go, Java, Python, JavaScript, TypeScript, PHP, Bash shell script, and SQL  
People: Organization design, career development, team health, coaching, presentation, and negotiation  
Languages: Spanish (Native), English (C2), German (B2), Swiss German (B1), and Esperanto (B1)

**EXPERIENCE** Google, 2014 – currently

**YouTube Infrastructure, Software Engineering** — Senior Engineering Manager (L7)

- Improved the performance of high-throughput pipelines by 1000x. **Award:** [Performance Excellence](#)
- Built a scalable platform that integrates 100+ backends and Large Language Models, enabling rapid development of complex insights. **Awards:** [Engineering](#) + [Feature](#) + [Feature](#) Excellence

**Cloud Artificial Intelligence, Site Reliability Engineering** — Senior Engineering Manager (L5→L7)

- Revamped capacity, monitoring, rollouts, data integrity, and frameworks across the entire developer organization, garnering top-down support, influencing the work of 70+ engineers, and leading the delivery, which improved the velocity, efficiency, and reliability of tens of products and 1K+ engineers. **Awards:** [Cloud](#) + [Core](#) + [Google Tech Impact](#), [Perfy](#), [Tech Debt Busters](#), [Tech Debt Busters](#)
- Led the productionization of three large Cloud Artificial Intelligence products across reliability, scalability, security, and process requirements, and enabled their launch.

**Datacenter Software, Site Reliability Engineering** — Technical Leader/Engineering Manager (L5)

- Sped up a project to revamp critical datacenter systems and landed it one year ahead of time.
- Troubleshoot and addressed incidents with company-wide impact as part of on-call responsibilities.

**Apps Storage, Site Reliability Engineering** — Technical Leader (L4→L5)

- Developed capacity models for products with 1B+ users and delivered significant resource savings.
- Responded to user-facing outages and performed complex operations without downtime while on-call.
- Led the company-wide migration to a new storage service. **Award:** [Feats of Engineering](#)

University of Granada, 2010 – 2014

**Department of Computer Science and Artificial Intelligence** — Research Fellow

- Researched compilers and directed a Thesis on music prototyping languages. **Award:** [Best Thesis](#).
- Researched 3-degree-of-freedom motion tracking techniques with a single low-budget camera.

**STUDIES** University of Granada, 2004 – 2010

*Master in Research, Soft Computing and Intelligent Systems.* GPA 9.3/10.

*Bachelor of Science, Information Systems Engineering.* GPA 8.7/10. **Award:** 1st in Class.

*Master of Science, Computer Science.* GPA 9.2/10. **Awards:** 1st in Class, National Award, Best Thesis.

*Bachelor of Science, Computer Systems Engineering.* GPA 8.7/10. **Award:** 1st in Class.

## INTERESTS **Generative Artificial Intelligence**

- [Professional Certificate on Generative Artificial Intelligence Engineering](#) — IBM, 2024
- [Professional Certificate on Artificial Intelligence Development](#) — IBM, 2024
- Developed ComfyUI nodes for [inpainting](#) (200K+ downloads), [interactivity](#), and [prompting](#).
- Fine-tuned models by training [LoRA adapters](#) with a dataset of pictures of myself.

## **Distributed Systems**

- Published a [tech talk](#) and an [article](#) on capacity management.
- Published a tech talk on [Google's production environment](#).
- Published a tech talk on [the Paxos algorithm](#).

## **Cybersecurity**

- [Professional Certificate on Cybersecurity](#) — Google, 2024
- [Professional Certificate on Security](#) — University of Salamanca, 2011

## **Computer Vision**

- [Designed](#) and [developed](#) a 3D motion tracking solution that works on a single camera.
- Proposed [hardware for voxel-based 3D object modeling](#).

## **Programming Languages**

- [Designed](#) and developed [lexical analyzers](#), [parsers](#), and a [model compiler](#) with ambiguity support.
- [Designed](#) and [developed](#) parallel finite state machines for fast ambiguity-supporting lexical analysis.
- Designed a [domain-specific language for music prototyping](#).
- Decompiled a Java splicer and extended it with a [command-line interface](#).
- Developed a Java [bytecode similarity detector](#) and a [manifest-based run-time subclass finder](#).

## **People Management**

- Co-authored a book chapter on [managing team overload](#).

## **User Experience**

- [Professional Certificate on User Experience Design](#) — Google, 2024
- Designed [alternate user interface designs for amateur radio transceivers](#).

## **Video Game Development**

- Developed a [web-based multiplayer videogame](#) in PHP+MySQL, with 10K+ players in the 2000s.
- Developed a [shooter videogame](#) in C for the Game Boy Advance console.
- Developed a [rogue-like videogame](#) in JavaScript.
- Developed a [physics engine and 3D world videogame prototype](#) in Java.
- Developed a [dungeon videogame prototype](#) in Java with custom physics and graphic engines.
- Developed a [dungeon videogame prototype](#) in Go with custom physics and inventory engines.

## **Amateur Radio**

- [Harmonized Amateur Radio Exam Certificate](#) — Ofcom, 2025
- Developed a [practice Morse code keyer application](#).
- Copied a live signal from an astronaut in the [International Space Station](#).

## **Literature**

- Authored and illustrated [Spanish books for children](#) leveraging generative artificial intelligence.

## **Music**

- [Modern Musician Specialization](#) — Berklee College of Music, 2014
- [Grade 5 Music Theory](#) — The Associated Board of the Royal Schools of Music, 2013
- [Grade 4 Singing](#) — The Associated Board of the Royal Schools of Music, 2013
- Composed, recoded, and produced [several indie rock, synthesizer, and piano albums](#).
- Produced [several alternative rock albums](#) leveraging generative artificial intelligence.