



# 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 and efficiency for 1K+ engineers.

**SKILLS** Generative Artificial Intelligence: Infrastructure and solutions, applied Generative Multi-modal Models  
Systems: Architecture, performance, automation, monitoring, load balancing, capacity, and data integrity  
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.

**CERTIFICATES** [Professional Certificate on Generative Artificial Intelligence Engineering](#) — IBM, 2024  
[Professional Certificate on Artificial Intelligence Development](#) — IBM, 2024  
[Professional Certificate on Cybersecurity](#) — Google, 2024  
[Professional Certificate on Security](#) — University of Salamanca, 2011  
[Professional Certificate on User Experience Design](#) — Google, 2024  
[Harmonized Amateur Radio Exam Certificate](#) — Ofcom, 2025  
[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

**HIGHLIGHTS** **Generative Artificial Intelligence**

- Developed ComfyUI nodes for [inpainting with generative models](#), automating complex image manipulation workflows and improving prompt adherence and output quality.  
Achieved **250K downloads** and **800 GitHub stars**.

**Distributed Systems**

- Published an article on [best practices for capacity management](#).
- Published talks on [capacity management](#), [Google production environment](#), and [the Paxos algorithm](#).  
Achieved **200K views** combined.

**Programming Languages**

- [Designed](#) and developed [lexical analyzers](#), [parsers](#), and a [model compiler](#) with ambiguity support.
- Developed a Java [bytecode similarity detector](#) and a [manifest-based run-time subclass finder](#).  
Used to identify plagiarized assignments at Universidad de Granada.

**People Management**

- Co-authored a chapter on [team overload](#) for The Site Reliability Workbook published by **O'Reilly**.

**Video Game Development**

- Developed a [web-based multiplayer videogame](#), maintained and ran it from 2006 to 2013.  
Achieved **10K+ monthly active users**.

**Amateur Radio**

- Developed a [practice Morse code keyer application](#) using generative artificial intelligence.
- Received a live signal from an astronaut in the [International Space Station](#).

**Literature**

- Authored and illustrated [Spanish books for children](#) leveraging generative artificial intelligence.  
Achieved **20K units downloaded** combined and **800 reviews** with an average **rating of 4.3/5**.

**Music**

- Composed, recorded, and produced [several indie rock, synthesizer, and piano albums](#).  
Achieved **20K streams**.
- Produced [several alternative rock albums](#) leveraging generative artificial intelligence.  
Achieved **30K streams**.