



# Álvaro Villegas

## EDUCATION

- Telecommunications Engineer** 📅 1988-1994  
**Universidad Politécnica de Madrid**  
 6-year program on telecom, electronics, digital transmission and signal processing  
 Graduated **5/400**. Average grade **8.4/10**  
 Thesis (real time speech recognition) qualified 10/10 with honors
- MBA Core (Global Management Program)** 📅 2011  
**ESCP Europe, Madrid**
- Machine Learning** 📅 2018  
**Stanford Online**

## EXPERIENCE

**Head of Extended Reality Lab** 📍 Madrid 📅 from 2022  
**Nokia** Research, innovation, XR, 5G, AI

- Launch XR Lab in Nokia, focused on XR technology for human communication.
- Research lead, team build & inspire, funded innovation projects, networking.
- Collaboration with product teams, innovation ecosystem and customers.
- Dissemination activities. Professor at University.

**Head of Bell Labs Spain** 📍 Madrid 📅 2017-2021  
**Nokia** Research, immersive media, VR/AR, 5G

- Build from scratch Nokia Bell Labs in Spain. Lead a team of 14 top researchers.
- Research direction (VR/AR) and dissemination (talks, round tables, conferences)
- Collaboration with commercial teams, innovation ecosystem and Administration.
- Member of Country Management Team in Nokia Spain.

**Chief Innovation Architect** 📍 Madrid 📅 2006-2016  
**Alcatel-Lucent** innovation, IPTV, CDN, video services, content security

- Lead innovation team in Video Business Unit, member of CTO office.
- Innovation in multimedia services, delivery protocols and content security.
- Proof of Concept making. Public funded projects. IPR generation.
- Designed most of real time video processing in Telefonica IPTV platform.

**Solution Architect** 📍 Madrid 📅 2003-2006  
**Nagravision** conditional access, DRM, content security

- Presales activities (RFPs, presentations) and solution design for customers.
- Business feedback for prod dev team; internal technical consultancy.

**Senior Innovation Consultant** 📍 Madrid 📅 2002-2003  
**Telefónica R&D** IPTV, Set Top Box, innovation

- Innovation projects for Telefonica IPTV, architecture of next gen IPTV middleware

**Field Applications Engineer** 📍 Munich 📅 2000-2002  
**Motorola** IPTV, Set Top Box architecture, innovation

- Presales IPTV architecture for Telcos and middleware providers

**Digital Headend Lead** 📍 Madrid 📅 1998-2000  
**ONO/Auna** cable TV, headend, cable operator

- Digital TV consulting, RFP write&evaluation, deployment supervision, people mgmt

**R&D Engineer** 📍 Madrid 📅 1994-1998  
**Telefonica R&D** digital interactive TV, R&D, innovation, development

- Developed an early digital video server with real time software on Unix machines.

## Internships

- Telefónica R&D, interactive TV group 📍 Madrid 📅 1994
- Universidad Politécnica de Madrid, Speech Recognition 📍 Madrid 📅 1993
- Siemens GmbH 📍 Munich 📅 1992

☀️ 1970 in Madrid (Spain)

👪 married, 4 kids

✉️ [linkedin.com/in/alvarov](https://www.linkedin.com/in/alvarov)

Contact Info

<http://alvaro-villegas.com>

## LANGUAGES

- Spanish** native ●●●●●
- English** proficient ●●●●●
- German** worked in Germany ●●●○○
- French** used at work ●●○○○
- Italian** ●○○○○

## SKILLS

### Technical

- Architecture
- Systems
- Real Time
- Deep development
- Networking
- Video
- VR/AR/MR
- Security
- 5G

### Professional

- Authoritas leadership
- Speaker
- Always willing to learn
- Innovative
- Communicative
- Teach
- Team

### Personal

- Passionate
- Vocational
- Fun
- Proactive
- Creative
- Inspiring

## AWARDS

- More than **40 patents filed**
- Bell Labs **DMTS** (Distinguished Member of Technical Staff)
- Member of Alcatel-Lucent Technical Academy
- Reina Sofía National Prize
- Top inventor award Nokia Spain