

# Raúl Salgado

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## EMPLOYMENT

Adjunct Lecturer, Dept. of Quantitative Methods, CUNEF Universidad

Director of the Networking Innovation Hub in Inetum Company

Head of various high-profile technical departments at Telefónica for 36 years

Professor at CUNEF BBDD I Y BBDD II.

Professor of Databases, Markup Languages and Programming at the UNIR.

Professor of IA Mastering and BIG DATA at UNIR.

Professor of Databases, Markup Languages and Programming at the Madrid Chamber of Commerce.

Professor of Databases, Markup Languages and Programming at the Telefónica Educación Digital.

Professor of Security and Communication Networks at the Army Engineer Academy for NATO Forward Operating Stations for 5 years.

## EDUCATION

Computer Engineer, Tecnología de la información Computer Engineer, Tecnología de la información - Universidad Francisco de Vitoria

Physical Systems Engineer.-Universidad Pontificia de Salamanca

Master's degree in technology Teacher Training,- Universidad Internacional de La Rioja

Master's Degree in Systems Management and its Technologies- Universidad de Alcalá de Henares

Técnico Superior Sistemas Automáticos Programables

Técnico Especialista en Electrónica Industrial

## FIELDS OF INTEREST

My main areas of interest focus on the design, deployment, and evolution of advanced telecommunications and IT infrastructures, with a strong emphasis on 5G, virtualization, automation, AI-driven operations, and defense-related applications, particularly in mission-critical environments.

## PUBLICATIONS

### LinkedIn posts and articles

You have multiple posts and articles visible on LinkedIn under your profile (publicly indexed):

- A post titled “**Inetum trabajando activamente las capacidades de red**” (~9 months ago). [LinkedIn](#)
- A post about “**5G QoS Quality of Service (QoS)**” (~5 months ago). [LinkedIn](#)
- Other visible recent topics referenced under your LinkedIn profile include:
  - **5G PERSONAL IoT NETWORK**
  - **5G ENCRIPCIÓN CUÁNTICA**
  - **ARQUITECTURAS LÓGICAS Y FÍSICAS 5G**These are seen as topics listed under your activity. [LinkedIn](#)

### Academic / Research publications

#### “Building Explanations for Fuzzy Decision Trees with the ExpliClas Software”

- Listed on [Academia.edu](#) under your name.  
This appears to be a research paper presented at the **2020 IEEE International Conference on Fuzzy Systems (FUZZ-IEEE)**. [Academia Independiente](#)

### 3) Educational material or uploaded documents

There is a **document uploaded to Scribd** attributed to *RAUL Salgado Vilas*:

- “**UF1. Fundamentos Conceptuales BBDD**” — appears to be teaching or lecture notes on relational database fundamentals. [Scribd](#)

### 4) External blog / tech article

“**5G quantum encryption**”

- An article *authored by* you on the Iquall Networks website about 5G and quantum encryption technologies, including cryptographic details. [iquall.net](http://iquall.net)

## WORKING PAPERS

I have worked and published working documents as an Advisor for qualifications at the INCUAL Ministry of Education in Vocational Training, defining and publishing the necessary profiles for AI and DevOps

## SELECTED PRESENTATIONS CONFERENCES

### 5G Use Cases

- Roundtables (professional participation)
- TelcoCloud / OpenStack Architectures
- Strategic Vision of Networks, CAPEX, and Technological Evolution
- Appearance as the author of technical-opinion content, not just as a repost.

## SEMINARS

I have participated in and given seminars on: AI, security and communications, SDN and 5G in:

- Professor at CUNEF BBDD I Y BBDD II.
- Professor of Databases, Markup Languages and Programming at the UNIR.
- Professor of IA Mastering and BIG DATA at UNIR.
- Professor of Databases, Markup Languages and Programming at the Madrid Chamber of Commerce.
- Professor of Databases, Markup Languages and Programming at the Telefónica Educación Digital.
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## PROFESSIONAL ACTIVITIES

### **Director of the Networking Innovation Hub in Inetum Company**

I lead project and budget management for an international, multidisciplinary, high-value team, delivering advanced Network, IT, and TV solutions.

Our scope spans the end-to-end lifecycle of network services:

- Project & Demand Management using PMP, with budgeting and resource optimization

and execution on: Systems, virtualization, databases, storage & backup and middleware.

- Network Architecture & Engineering covering RAN, Core, Transport, Edge, and multicloud environments (Azure, AWS, GCP, OCI).
- SDN & Security: design and automation of underlay/overlay networks, firewalls, load balancers, and perimeter defenses.
- Infrastructure Provisioning (Day-0) and 5G Deployments (Day-1) for RAN, private 5G cores, and slicing (eMBB, URLLC, mMTC, XR).
- Virtualization & Cloud-native: VNFs on VMware/Hyper-V/OpenStack, CNFs on Kubernetes/OpenShift/Tanzu, with Helm, YAML, and TOSCA descriptors.
- Orchestration with ONAP, ETSI OSM, HP NFV Director, and Iquall SON Automation, integrating NFV, SDN, and OSS/BSS domains.
- Automation & DevOps: GitOps, Terraform, Ansible, CI/CD pipelines, automated deployment, rollback, and testing.
- Observability & AIOps: metrics, logs, traces with Prometheus, Grafana, ELK, and closed-loop remediation; AI/ML for anomaly detection, SON/RRM optimization, traffic prediction, and energy efficiency.
- Validation & Go-Live: functional, performance, resilience, and security testing across multi-VIM/hypervisor ecosystems.
- Operations (NOC & SOC): continuous assurance, patch/version management, capacity optimization, cost control, and compliance.

This model integrates engineering, automation, AI/ML, and continuous improvement, ensuring resilient, scalable, and secure delivery of next-generation network services.

#### **Telefónica:**

- **Head of Automation and E2E Integration**
- **Head of Automation and E2E Integration**
- **Director of the Tres Cantos TIC Closure Program, 2012-01 - 2015-12**
- **Head of the National Service Management Center**
- **Large Customer Engineering Pre-Sales Army**