

Álvaro Fernández

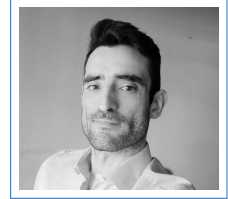
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Experience

2022–present **DevOps Engineer**, *Keyko GmbH*, Baar, Switzerland.

2020–2022 **Platform Engineer**, *Empathy.co*, Gijón, Spain.

- Install, manage and operate the Empathy.co platform based on Kubernetes (EKS and GKE) with Helm as a package manager.
- Manage the cloud infrastructure (AWS, GCP) through Terraform and Atlantis.
- Manage and configure several CI/CD technologies such as Github Actions, ArgoCD and Jenkins.
- Deploy, rightsize and configure the monitoring stack (Prometheus, Alertmanager, Grafana) and the logging stack (Fluent Bit, Fluentd, Elasticsearch/Loki) in Kubernetes.
- Also working in FinOps trying to analyze, optimize and bring visibility and accountability to the cloud costs at Empathy.co.

2018–2020 **DevOps and Software Engineer**, *StratioBD*, Pozuelo de Alarcón, Spain.

Develop the PaaS (DC/OS - Mesos based) installation tool (Python and Ansible), covering technologies such as Vault, Etcd, Zookeeper, Consul, Prometheus or Grafana.

2017–2018 **Support Technician**, *StratioBD*, Pozuelo de Alarcón, Spain.

Support and integration of StratioBD PaaS based on DC/OS (Mesos).

2012–2016 **Teaching Assistant**, *Norwegian University of Science and Technology (NTNU)*, Trondheim, Norway.

25% of my Ph.D consisted of a teaching assistant position in courses mainly related to networking (architectures, performance and dependability).

Education

2012–2017 **Ph.D in Telematics**, *Norwegian University of Science and Technology (NTNU)*, Trondheim, Norway.

Thesis title: Modelling and Analyzing Cost-Effective Dependability in Passive Optical Networks.

[Link to diploma.](#) [Link to defence presentation.](#) [Link to abstract.](#)

2006–2012 **Telecommunications Engineering (M.Sc.)**, *University of Valladolid (UVa)*, Valladolid, Spain.

Extraordinary End-of-Degree Award 2012 (“Premio extraordinario Fin de Carrera” in Spanish).

[Link to diploma.](#)

Certifications

- Feb. 2021 Hashicorp Certified: Terraform Associate. Expires Feb. 2023. [Link to credential.](#)
- Mar. 2021 Certified Kubernetes Application Developer - CKAD. Expires Mar. 2024. [Link to credential.](#)
- Apr. 2021 AWS Certified Cloud Practitioner. Expires Jul. 2024. [Link to credential.](#)
- Jun. 2021 Google Cloud Associate Cloud Engineer. Expires Jun. 2023. [Link to credential.](#)
- Jul. 2021 AWS Certified Solutions Architect - Associate. Expires Jul. 2024. [Link to credential.](#)
- Nov. 2021 Elasticsearch Certified Engineer. Expires Nov. 2023. [Link to credential.](#)
- Feb. 2022 MongoDB Certified DBA Associate (C100DBA). No expiration. [Link to credential.](#)
- Apr. 2022 Certified Kubernetes Administrator - CKA. Expires Apr. 2025. [Link to credential.](#)

Languages

Spanish Mother Tongue

English Advanced

Selected Publications

Some publications resulting from my research work. A full list of my publications can be found at my LinkedIn profile. Pre-print copies can be provided upon request.

- Journal Á. Fernández and N. Stol, "Economic, dissatisfaction and reputation risks of hardware and software failures in PONs", IEEE/ACM Transactions on Networking, 2016. [Link to publication.](#)
Á. Fernández and N. Stol, "CAPEX and OPEX simulation study of cost-efficient protection mechanisms in passive optical networks", Optical Switching and Networking, 2015. [Link to publication.](#)
- Conference Á. Fernández and N. Stol, "Managing software failures and capacity assignment to control interval availability in PONs", 8th International Workshop on Resilient Networks Design and Modeling, Sweden, 2016. [Link to publication.](#)