

CAREER PROFILE

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PROFESSIONAL EXPERIENCE

R&D Project Manager and Machine Learning Engineer

July 2020 - Present

Hexagon, Switzerland

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SCRUM Master and Computer Vision Engineer

March 2018 - June 2020

CTAG, Spain

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R&D Project Manager and Computer Vision Engineer

July 2016 - February 2018

INSITU Engineering, Spain

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Computer Vision Researcher

August 2014 - June 2016

TIDOP Research Group (University of Salamanca), Spain

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EDUCATION

PhD in Geotechnologies applied to Construction, Energy and Industry

2013 - 2017

University of Salamanca

Development of Computer Vision solutions for the automatic analysis of geomatic products (LiDAR/Photogrammetric Point Clouds and Multispectral Imagery) applied to the management of energy resources.

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MSc in Cartographic Geotechnologies applied to engineering and Architecture

2012 - 2013

University of Salamanca

BSc in Surveying Engineering

2007 - 2011

University of Oviedo

CertHE in Multiplatform Applications Development

2014 - 2016

CIFP of Avilés

CertHE in WEB Applications Development

2014 - 2016

CIFP of Avilés



Luis López Fernandez

R&D Project Manager and Artificial Intelligence Engineer

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📎 Resume PDF

LANGUAGES

Spanish (Native)

English (Professional)

German (Basic)

INTERESTS

Climbing

Snowboarding

Cooking

COMPLEMENTARY EDUCATION

Artificial Intelligence Nanodegree and Specializations by Udacity - In this program, I learnt essential Artificial Intelligence concepts from AI experts like Peter Norvig and Sebastian Thrun, that can be applied to many fields like Natural Language Processing, Computer Vision or Predictive Maintenance, among others. I completed projects and exercises incorporating search, optimization, planning, and probabilistic graphical models which have been used in Artificial Intelligence applications for automation, logistics, operations research, and more.

Agile Software Development Nanodegree by Udacity - In this program, I learnt how to build products that deliver continuous value to customers using an Agile approach to software development. I worked with agile strategies like Scrum, Kanban and XP, that can be used to create an environment that fosters high performing teams, and manage iteration planning using Agile techniques. I worked on the creation of a release plan for a Minimum Viable Product, creating metrics that show project status, and designing communication strategies to effectively communicate progress both within and outside of the development team.

Project Management Professional Certificate by Google - In this program, I got an immersive understanding of the practices and skills needed to succeed in a project management role. I learnt how to create effective project documentation and artifacts throughout the various phases of a project. I worked with the foundations of Agile project management, with a focus on implementing Scrum events, building Scrum artifacts, and understanding Scrum roles. Additionally, I practiced strategic communication, problem-solving, and stakeholder management through real-world scenarios.

Blockchain Developer Nanodegree by Udacity - In this program, I learnt the fundamentals of the blockchain platform, working both with the Bitcoin and Ethereum protocols. I created my own private blockchain, and secured digital assets using blockchain identity capabilities. I explored the Ethereum platform and used Solidity and smart contracts to develop my own decentralized apps. I built projects for real-world applications, and gained the essential skills for a career in this dynamic space.

Additional training - A detailed list of additional training can be found in the next link.

PUBLICATIONS

- **Photomatch** - An open-source multi-view and multi-modal feature matching tool for photogrammetric applications

D. González-Aguilera, E. Ruiz de Oña, L. López-Fernández, E. M. Farella, E.K. Stathopoulou, I. Toschi, F. Remondino, P. Rodríguez-González, D. Hernández-López, A. Fusiello and F. Nex
XXIV ISPRS Congress, 2020

- **GRAPHOS** - Open-source software for photogrammetric applications

D. González-Aguilera, L. López-Fernández, P. Rodríguez-González, D. Hernández-López, D. Guerrero, F. Remondino, F. Menna, E. Nocerino, I. Toschi, A. Ballabeni and M. Gaiani
Photogrammetry Record, 2018

- **Close-range photogrammetry and infrared imaging for non-invasive honeybee hive population assessment**

Luis López-Fernández, Susana Lagüela, Pablo Rodríguez-González, José Antonio Martín-Jiménez and Diego González-Aguilera
ISPRS International Journal of Geo-Information, 2018

- **Feature matching evaluation for multimodal correspondence**

M. Gesto-Díaz, F. Tombari, D. González-Aguilera, L. López-Fernández and P. Rodríguez-González
ISPRS Journal of Photogrammetry and Remote Sensing, 2017

- **Automatic evaluation of photovoltaic power stations from high-density RGB-T 3D point clouds**

Luis López-Fernández, Susana Lagüela, Jesús Fernández and Diego González-Aguilera
MDPI - Remote Sensing, 2017

- **Comparative analysis of triangulation libraries for modeling large point cloud from land and their infrastructures**

Luis López-Fernández, Pablo Rodríguez-González, David Hernández-López, Damian Ortega-Terol and Diego González-Aguilera
MDPI - Infrastructures, 2017

- **GRAPHOS** - A new approach for archaeological 3D recording

Diego González-Aguilera, Luis López-Fernández, Pablo Rodríguez-González, Diego Guerrero, David Hernández-López, Fabio Menna, Erica Nocerino, Isabella Toschi, Fabio Remondino, Andrea Ballabeni, Marco Gaiani
ARQUEOLOGICA 2.0 International Congress, 2016

- **Development of an all-purpose free photogrammetric tool**

D. González-Aguilera, L. López-Fernández, P. Rodríguez-González, D. Guerrero, D. Hernández-López, F. Remondino, F. Menna, E. Nocerino, I. Toschi, A. Ballabeni and M. Gaiani
XXIII ISPRS Congress, 2016

- **Thermographic and mobile indoor mapping for the computation of energy losses in buildings**

L. López-Fernández, S. Lagüela, D. González-Aguilera and H. Lorenzo
Indoor and built environment, 2016

- **Large-scale automatic analysis and classification of roof surfaces for the installation of solar panels using a multi-sensor aerial platform**

Luis López-Fernández, Susana Lagüela, Inmaculada Picón and Diego González-Aguilera

SKILLS & PROFICIENCY

