Luis
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GENERATIVE AI LEAD & TECHNOLOGY PROJECT MANAGER

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Generative AI Lead & Technology Project Manager Summary

- With over 10 years in the AI domain, I am an experienced Artificial Intelligence Engineer and Project Manager, proficient in both the technical and managerial aspects of AI projects.
- From ideation to deployment, my expertise spans the entire AI project lifecycle, seamlessly bridging the gap between technical and non-technical stakeholders.
- Staying abreast of the latest advancements, I not only implement contemporary solutions but also advocate for ethical AI practices.
- Beyond hands-on work, I actively engage in AI conferences and mentorship, committed to both shaping and sharing the future of Artificial Intelligence.

Work History

Generative AI Lead & Technology Project Manager   July 2020 - Present
Hexagon Innovation Hub - AI Hub

- Definition and execution of the Generative AI Roadmap.
- Design, build and maintain Generative AI solutions that support and enhance Hexagon AB processes and portfolio.
- Implementation of multiple Machine Learning solutions for efficient and robust processing of multimodal information (point clouds, multimodal imagery, GNSS...).
- Management and execution of multiple technology/research projects, proof of concepts and feasibility studies.
- Contribution to the design operation to automate, scale, monitor, and manage Machine Learning workflows and infrastructure, ensuring reliable deployment and consistent performance of ML models in production environments.

Postdoctoral Researcher and Consultant   October 2017 - Present
Tidop Research Group - University of Salamanca

- Support and consulting on research activities related with Photogrammetry, Computer Vision and Artificial Intelligence.
- Consulting and collaboration in numerous research projects executed by the TIDOP Research Group and affiliated entities.

Computer Vision Engineer & Agile Lead   March 2018 - June 2020
CTAG - Automotive Technology Centre of Galicia

- Development of a real-time LiDAR processing stack for the ADAS platform of a Automotive OEM.
- Development of multiple calibration and perception algorithms for the imaging, RADAR and LiDAR sensors of different 'Automotive OEMs' and 'Tier 1' suppliers.
- Support the team implementing/refining agile practices, facilitating the Scrum process, ensuring that the team collaborates effectively to deliver high-quality increments to achieve project goals.

R&D Project Manager & Computer Vision Engineer   July 2016 - February 2018
INSITU Engineering

- Development of multiple calibration strategies to integrate GNSS, LiDAR and imaging sensors, among others.
- Implementation of Computer Vision and Artificial Intelligence algorithms for asset detection, description, localization and tracking on multimodal data.
- Management and execution of multiple technology/research projects.

Predoctoral Researcher   June 2014 - August 2017
Tidop Research Group - University of Salamanca

- Research line focused on the application of Geomatic, Computer Vision and Machine Learning strategies for the optimization of energetic resources.
- Collaboration in numerous research projects executed by the TIDOP Research Group and affiliated entities.

Education

PhD. Geotechnologies applied to Construction, Energy and Industry   **September 2013 - September 2017**
University of Salamanca

Master's Degree: Cartographic Geotechnologies applied to Engineering and Architecture   **September 2012 - June 2013**
University of Salamanca

Bachelor's Degree: Surveying Engineering   **September 2007 - November 2011**
University of Oviedo

Certificate of Higher Education: Multiplatform Applications Development   **September 2014 - June 2016**
CIFP of Aviles

Certificate of Higher Education: Web Applications Development   **September 2014 - June 2016**
CIFP of Aviles

Skills

Generative AI   **Deep Learning**   **Reinforcement Learning**

Computer Vision   **NLP/LLMs**   **Cloud**   **Edge**

Project Management   **Agile Development**   **Leadership**

Spanish (Native)   **English (Professional)**   **German (Basic - B1)**

Interests

Mountain biking, hiking and mountaineering.
Snowboarding and snowshoeing.
Traveling, nature and outdoors.
Reading and blogging.
Continuous learning and self-improvement.
Cutting-edge technology

Certifications and Complementary Training

- Professional Data Engineer - Google
- Artificial Intelligence Nanodegree - Udacity
- Agile Software Developer Nanodegree - Udacity
- Project Management Certificate - Google
- Certified Project Management Associate (IPMA Level D)
- Scrum Foundation Professional Certification - SFPC
- Blockchain Developer Nanodegree - Udacity
- An extended list of trainings and certifications can be found here: luislf.xyz/certif

Scientific Publications

- Photomatch - An open-source multi-view and multi-modal feature matching tool for photogrammetric applications
- GRAPHOS - Open-source software for photogrammetric applications
- Feature matching evaluation for multimodal correspondence
- Automatic evaluation of photovoltaic power stations from high-density RGB-T 3D point clouds
- Large-scale automatic analysis and classif. of roof surfaces for the installation of solar panels using a multi-sensor aerial platform
- Thermographic and mobile indoor mapping for the computation of energy losses in buildings
- An extended list of scientific publications can be found here: luislf.xyz/publ