JAVIER MUÑOZ DE LUNA

OPTICAL ENGINEER

CONTACT

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ABOUT

I'm a proactive person with good teamworking skills. As optical engineer I have been working designing, manufacturing, assembling and testing imaging and non imaging optical and optoelectronical devices. I have extensive experience in optics laboratory, especially in the field of photometry, radiometry and spectroscopy.

EXPERIENCE

Associate Professor

King Juan Carlos University Móstoles Campus | October 2021 - Present

I Join the Teaching Team of the URJC to collaborate in the subjets of the Department of Applied Mathematics, Materials Science and Engineering and Electronic Technology, within the Electronic Technology area.

Electro-optical Engineer

OPUS RSE | February 2021 - Present

I´m actually working in the design, development and manufacturing of a new optoelectronical device for measuring, in real-time, the pollution of vehicles in real driving conditions. The system is based on Tunable Diode Laser Absorption Spectroscopy (TDLAS)

Optomechanics Department Head

MLabs Optronics | February 2018 - February 2021

During my time in MLabs Optronics I worked in several projects in Aeronautics and Industrial fields. The most challenging was SENSORIANCE https://cordis.europa.eu/project/rcn/213800_es.html, an European funded project in collaboration with SAAB, fro developing a multispectral system for an Enhanced Flight Vision System (EFVS).

Optics Department Head

Escribano Mechanical & Engineering S.L. | July 2017 - February 2018

As Optics Department head I manage the design of optical systems adapted to customer requirements, I participate too in the tolerance analysis of optical elements and in the manufacturing proccess of all the optical elements designed. I support too the optomechanical design for the assembly of optical elements.

Optical Engineer

Escribano Mechanical & Engineering S.L. | November 2015 - July 2017

During my first years in Escribano I have performed design tasks of imaging optical systems both visible and MWIR and LWIR bands (thermal cameras). I have also participated in the integration of optoelectronic systems, defining the needs of the systems according to the requirements posed by external clients, carrying out laboratory tests and participating in the assembly of final products. Due to my experience with non sequential raytrace software I have performed straylight analysis tasks.

Optical Designer

Daisalux | October 2014 - November 2015

For a little over a year I worked as Optical designer the R&D + i center Laintec, belonging to Daisalux, company dedicated to designing, manufacturing and marketing of emergency lighting. My work was mainly focused on the design, development and optimization of LED lenses (Non imaging Optics).

Researcher

Universidad Complutense de Madrid | June 2007 - September 2014

Department of Optics of the Universidad Complutense de Madrid performing design, characterization and optimization of solar photovoltaic applicable optical systems. Research in the field of lighting of cultural heritage. Development of systems for spectral and colorimetric measurements applied to cultural assets.

EDUCATION

Massachusetts Institute of Technology
Architecture and Systems Engineering : Models and Methods to Manage Complex Systems | November 2018 - March 2019

Universidad Complutense de Madrid
PhD (Doctor of Philosophy) | September 2010 - February 2016

Universidad Complutense de Madrid
M.Sc. (Master of Science) Optics, Optometry and Vision | September 2007 - September 2009

Universidad Complutense de Madrid
B.Sc. (Bachelor of Science) Optics and Optometry | September 2003 - February 2007

SKILLS

- Matlab
- Zemax
- Auto CAD
- Teaching
- Colorimetry
- Teamworking

- Trace Pro
- Code V
- Scientific Writing
- Photometry
- Project Management

- Light Tools
- Solid Works
- Communication
- Radiometry
- Office

LANGUAGES

Spanish - Native or bilingual proficiency

English - Full professional proficiency

French - Elementary proficiency