JOSE LUIS SAGREDO BARCINA

ABOUT ME

I'm a quick learner with strong problem solving skills that were further developed during my years as a phyysics student. Through in-class and extracurricular activities, I broadened my abilities in organization, adaptability, and time/workload management.

CONTACT ME

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MY SKILLS

Team Work

Communication

Problem Solving

Multitask

Leadership

EXPERIENCE

LASER TECHNICIAL
Spanish Center for Pulsed Laser (CLPU)   2017-Current

-Laser operator in VEGA laser system (VEGA ll 6J/30fs/10Hz/800nm, VEGA lll 30J/30fs/1Hz/800nm) and responsible for the maintenance of the laser system

-Responsible for providing laser HHR Spectra Phisics System service (Ti:Sapphire oscillator: SpectraPhishics MaiTai, 1kHz, 7mJ/pulse, 800nm)

-Development, control and management of the VEGA system using web support based on PHP as inventory, maintenance, laser status, experiment information web pages. Databases used: SQL-Server

R&D TECHNICAL STAFF
Spanish Center for Pulsed Laser (CLPU)   2015-2017

-Laser operator in VEGA laser system (VEGA ll 6J/30fs/10Hz/800nm, VEGA lll 30J/30fs/1Hz/800nm) and responsible for the maintenance of the laser system

-Responsible for providing laser HHR Spectra Phisics System service (Ti:Sapphire oscillator: SpectraPhishics MaiTai, 1kHz, 7mJ/pulse, 800nm)

-Development, control and management of the inventory of VEGA system using web support based on PHP Databases used: SQL-Server

-Responsible for the study of the vibrational analysis of the VEGA laser system. Development of software for the treatment of vibrations based on Samurai®2.4, MatLab®2015.b and Origin®9.0

-Development of Lab-View software for motor control (NP-198) belonging to beam transport VEGA II

-Head of the technical area of the center in the management of technical buying with external companies

INTERSHIP IN SPANISH CENTER FOR PULSED LASER (CLPU)
Spanish Center for Pulsed Laser (CLPU)   2015

-Characterization of a ultrashort-laser-generated X-Ray source

-Development of laser-plasma interaction software. Reading and processing data relating to X-ray spectrometry.

EDUCATION

MASTER'S DEGREE IN PHYSICS AND TECHNOLOGY OF LASERS
Salamanca University (SPAIN)   2015-2017

Master's Thesis in study of interation láser-biológical matter

BACHELOR'S DEGREE IN PHYSICS (ERASMUS)
Salento University (ITALY)   2012- 2013

BACHELOR'S DEGREE IN PHYSICS
Salamanca University (SPAIN)   2010- 2015

Bachelor's Degree's Thesis in characterization of a laser-generated X-Ray source

IT SKILLS

OPERATING SYSTEMS
-Windows®, MacOs®, Ubuntu

PROGRAMMING LANGUAGES
-Fortran95, C++, HTML, SQL, PHP

SOFTWARE
-Wolfram Mathematica® 10.3 , MatLab® 2015.b, LabView® 16, Samurai® 2.4, Solid Works®, Zeemax®16, Origin® 9.0, LaTeX, PSPice®

ADDITIONAL SOFTWARE
-Kinesis®, Hamamatsu®, FilmQA Pro®, Adobe Photoshop CSS®, Adobe Lightroom®, Adobe Premiere®, Adobe After Effects®, Final Cut Pro® X, Adobe Dreamweaver®, Adobe Flash®

LANGUAGES

ENGLISH   Current techincial/scientific English (B2 Level)

SPANISH Native language

ITALIAN   B2 Level - Università del Salento (ITALY)