ELOY COTO ALFONSO

Energy Engineer

Professional with over 4 years of experience shared between the research of biomass and particle filters. I am a creative, hard working person focused on problem solving with a great attention to detail. My excellent interpersonal skills have been proven in different situations where team work was a key to obtain successful results. My goal is to find a challenging position where I can continue developing my skills and knowledge.

Personal Info

Name
Eloy Coto Alfonso

Residence
Berlin, Germany

Phone
(+49) 177 625 7358

Email
eloycoal@gmail.com

Linkedin
linkedin.com/in/eloy-coto-alfonso

Expertise

Engineering
Energy efficiency, combustion and pyrolysis, energy generation

Software
Office suite, Solid Works, Hypermesh, ANSYS Fluent, EnCase

Modelling
C, Python

Languages

Spanish
Native

English
Professional

German
A2

Additional Info

Willingness to travel
Available for relocation
Flexibility for office and remote working
Driven license

PROFESSIONAL EXPERIENCE

Nov. 2021
Aug. 2018
Berlin, DE

Technical University of Berlin
Research Assistant

Responsible for the Computational Fluid Dynamics (CFD) modeling and simulation for the thermal conversion investigation of the pyrolysis wood particles as the scope of a project developed for the Deutsche Forschungsgemeinschaft. The project goal was to describe and include the presence of heterogeneous secondary reactions in kinetic models and the influence of inorganic species on products distribution. Presentation of the results in international seminars.

Supervision and coordination of Bachelor and Master's final thesis.

Adjunct lecturer for the subject Technical Reaction Control II.

Jan. 2017
Aug. 2018
Vigo, ES

University of Vigo
Research Assistant

Modeling and simulation of electrostatic precipitators (ESP) and cyclone separators in CFD in order to reduce suspended particles in biomass burners. Support for the simulation of pellet combustion boilers and to the simulation of thermal loads in electronic systems with passive cooling.

Feb. 2016
Jun. 2016
Gijón, ES

TSK INGEMAS
Mechanical engineer - Intership

Drafting technical documentation such as data sheets and technical specification documents for the public tender of elements of the mechanical engineering area for a 25MW geothermal power generation plant. The plant elements I participated in were, API Standard 650 tanks, pressure vessels, hydrocarbon separators and water tanks (ASME VIII), cooling towers (Cooler Tower Institute) and plate heat exchangers.

Jul. 2013
Aug. 2013
Vigo, ES

Eco Forest Geotermia S.L.
R&D department - Intership

Set up for testing the added or modified functions of the geothermal heat pumps as well as the new line of aerothermal heat pumps. Updating of data sheets, user manuals and installation manuals with new features or new models.

EDUCATION

Sep 2016
Jun. 2017
Vigo, ES

University of Vigo
Master's degree in Automotive Engineering

Study of the different manufacturing processes focused on a globalized automotive industry. With the inclusion of Industry 4.0 towards a new concept of interconnected, electric, autonomous and intelligent vehicles under the influence of continuous improvement.

Jun 2016
Sept. 2014
Gijón, ES

EPI - University of Oviedo
Master's degree in Industrial Engineering. Energy specialization

Multidisciplinary study of the different industrial technologies oriented towards the design, management and production in industry and its transformation in general, covering traditional and future fields.

Jun 2014
Sept. 2010
Vigo, ES

University of Vigo
Bacherlor's degree in Energy Engineering. Energy Efficiency

Design, optimization and management of technological processes in the energy sector ranging from energy generation to the user level of thermal and electrical energy (production, storage, transport, distribution, markets).