



ELOY COTO ALFONSO

Web Developer

Web developer and energy engineer with over 4 years of experience in the turnkey industry and research in the field of Computational Fluid Dynamics (CFD). Adaptable and flexible to changeable scenarios improved by working both in a team and individually, bringing creative solutions to new problems. Passionated for innovation and sustainability with a detail oriented personality combined with strong resolute decision making skills and high interpersonal abilities that have been proven in previous situations.

Personal Info

Name

Eloy Coto Alfonso

Residence

Berlin, Germany

Phone

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Email

eloycoal@gmail.com

Linkedin

linkedin.com/in/eloy-coto-alfonso

GitHub

https://github.com/eloycotoalfonso

Expertise

Engineering

Energy efficiency
Combustion and pyrolysis
Engineering projects
Energy generation
Heat pumps

Software

Office suite
Solid Works
Hypermesh
ANSYS Fluent
EnCase

Modelling and programming

C
HTTP
CSS
JavaScript
React
Angular
Git
Python
SQL
Responsive Design

PROFESSIONAL EXPERIENCE

Sep. 2022
Feb. 2013

Berlin, DE

Career Foundry

Student/Mentee Full Stack Web Development

Covered the entire web development process, including Agile methodologies, requirements gathering and analysis, database design and management, front-end web development using HTML/CSS/JavaScript, and back-end web development using Node.js. Created responsive and user-friendly web interfaces using CSS frameworks, explored JavaScript frameworks for building complex applications, and learnt web application security best practices. Covered as well the deployment and hosting on cloud platforms like Lambda-AWS, Heroku and databases like Firestore or MongoDB.

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.

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 - Internship

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 engineer - Internship

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.

Soft Skills

Communication
Critical / analytical thinking
Ability to prioritize
Teamwork
Adaptability
Perseverance

Languages

Spanish
Native



English
Professional



German
A2



Additional Info

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



EDUCATION

Sep 2022
Feb. 2023
Berlin, DE

CareerFoundry

Certificate in Full Stack Web Development

Intense 400+ hour project-based training program focused on JavaScript, HTML, CSS and their most prominent libraries, frameworks and tools.

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

Bachelor'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).