



## Personal Info

### Name

Eloy Coto Alfonso

### Residence

Berlin, Germany

### Phone

(+34) 630 355151

### Email

eloycoal@gmail.com

### Linkedin

linkedin.com/in/eloy-coto-alfonso

### GitHub

https://github.com/eloycotoalfonso

## Expertise

### Engineering

Energy efficiency, combustion and pyrolysis, energy generation

### Software

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

### Modelling and programming

C, HTTP, CSS, JavaScript, React, Angular, Python, SQL, Git, Responsive Design

## Languages

### Spanish

Native



### English

Professional



### German

A2



## Additional Info

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

# 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.

## 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.

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 - 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.

## EDUCATION

Sep 2012  
Feb. 2023

Berlin, DE

### CareerFoundry Certificate in Full Stack Web Development

Intense 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).