Cesar Conopoima

Programmer and mechanical engineer

Contact **Formal Education**

La California Sur. Caracas-Venezuela. 2007-2013 Mechanical Engineer at Universidad Simón Bolivar Caracas-Venezuela

Formation Domain: Mechanics of rigid bodies, and fluid dinamics

Numerical formulations to solve problems, specially computational fluid dynamics

+58 416 4203517

CesarConopoima

Programming

HTML-CCS Python-C++

ANSYS-CFX

orientation.

Ruby-Ruby On Rails

cesar.conopoima@gmail.com

International Student

2012-2013 One full year as international student, at the department of Mechanical Engineer Development. Studies in contact mechanics and tribology.

Language

Work Experience

English and French Fluency German Basic Spanish mother tongue

July-2014 Software Developer at Funindes. (Research & Development Foundation at Universidad -Present Simón Bolívar)

- Compressors - In field Measurement - Programming.

Stand alone application to compute operational point and performance map of centrifugal and reciprocating compressors, installed in gas production facilities.

This project included, in field measurements and analysis of systems.

Selection and implementation of suited technology to develop the product in short time.

Back-end and front-end programming in visual basic.

Clients were 3 gas production facilities in the east side of Venezuela.

Computational Fluid Dynamics Engineer. at Funindes. (Research & Development Foundation Matlab at Universidad Simón Bolívar) Jan-2014 - CFD - Numerical Models Research

> July-2014 Performing numerical simulations of multiphase flow in ANSYS CFX. Studying phase separation process in oil-water skimmer. The study included: in depth study of available numerical models that apply to the physical phenomena, selection of pertinent models

to study coalescence, and separation of oil. This project was developed to understand and improve operation of skimmer separator installed in an oil production field in Rubiales, Colombia.

Personal Statement

Matplolib-Numpy from Python

I'm an engineer who knows how to solve

addressing engineering problems with a

problems. I feel very comfortable

that pushes me to new areas of

Professional interests

development - Programming

knowledge. I consider myself a very

pragmatic person with a strong result

Software development - Web application

Numerical Simulations - Computational

Numerical Simulation

Programmer at the quality control department at Scan Geofísica - Programming - Ruby - SQL

Developing and refactoring code in ruby language and SQL, to improve productivity and performance of the quality control process.

Aug-2013

programming mindset. I really enjoy May-2013 Involved in a project to control over 150 TB of seismic data (SEG-D and SEG-Y formats). working in a stimulating environment

> Computational Fluid Dynamics Junior Researcher, Research & Development Department. at General Electric Oil & Gas Thermodyn

- CFD - Turbomachinery - Data analysis

Improving axial thrust prediction in centrifugal compressors. Performing numerical simulations with local software, to study and analyze secondary flows in cavities and labyrinth seals. Results and generated models were validated with experimental data.

Analyzing and exploiting experimental data to determine correlations and patterns, that finally allow engineers to calculate axial forces driven axial thrust in centrifugal compressors.

This project was developed in France. The communication with team members was in French and the final memory was written in English.

May-2012 This project was presented in Venezuela as the final dissertation to obtain the Mechanical

Aug-2012 Engineer diploma, been qualified as an outstanding work.

Personal interests

Fluids Dynamics

Alpinism - Soccer

Job as freelancer - Programming - Ruby on Rails - SQL - HTML5 - CCS

Developing web application for e-commerce, in ruby on rails, with postgresql as db manager, programming of front end and back end, in constant communication with client, to satisfy all needs in real time. Application deployed in heroku could be found in american-parts.herokuapp.com