

HERNANDO JOSÉ DE AVILA PEREIRA

Mechanical Engineer M.Sc

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✉ CR 20-30-112 P2 APTO 01, 130001

📍 Cartagena De Indias, Colombia



EXPERIENCE

Design coordinator

Metalmecánica Promoambiental S.A.S

📅 16/01/2019 - Currently

📍 Cartagena, Bolívar

- Engineer in charge of the design of equipment and metallic structures, using CAD / CAM software.
- Preparation of blueprints and programming for manufacturing with CNC machinery.
- Supervise dimensional analysis according to manufacturing blueprints.
- Structural design with finite elements using SolidWorks 2019-2020 software.

Immediate boss: Leonardo Palacios - ☎ 3014030855

Professor

Universidad Tecnológica De Bolívar

📅 : 01/02/2016-27/11/2018

📍 Cartagena, Bolívar

- Professor in charge of giving courses on rigid body statics, graphic expression and materials resistance laboratories.

Immediate boss: Edgardo W. Arrieta - ☎ (+57)-5-6535305

Rotating Equipment Analyst

SDP Rotodinámica LTDA

📅 28/05/2015-15/09/2015.

📍 Cartagena, Bolívar

- Mechanical engineer responsible for laser alignment and vibration analysis of rotating equipment (pumps, compressors, industrial fans, etc.) in the Cartagena refinery expansion project.

Immediate boss: Alexander Camargo - ☎ 3103526893

Practicing Engineer

Reficar S.A.

📅 04/08/2014-04/02/2015.

📍 Cartagena, Bolívar

- Record and balance of field workers, man-hours and machinery used.
- Record of progress in the catalytic cracking unit (FCC) in the expansion project of the Cartagena refinery in the mechanical, electrical and civil areas.

Immediate boss: Ricardo Ortiz

PROYECTOS

isogeometric boundary element method

Colciencias/Universidad Tecnológica De Bolívar

PERFIL PROFESIONAL

With communication skills that allow my opinions to be conveyed to other people in an assertive way. Experience in the metalworking and Oil Gas industry, where it was possible to put leadership skills into practice in work teams. Friendly, energetic person, objective and committed to regulations and rules. With predisposition for dynamic environments, quick adaptation and open-minded to new and different points of view. Impeccable and diligent work ethic with the established commitments. Interested in working in machine design research, industrial production and teaching.

COURSES, SEMINARS AND CONGRESSES.



MECOM 2018

XII Congreso Argentino de mecánica computacional-Speaker.



Simposio SMEC 2016

Simposio nacional en mecánica de materiales y estructuras continuas: experimentación, modelado numérico y teórico -Speaker.



Minor(Diplomado) 2014

Universidad Tecnológica de Bolívar, Industrial maintenance

cvsection Strengths cvtag Responsibility
cvtag Hard work
cvtag Creativity cvtag Honesty

CONOCIMIENTOS INFORMÁTICOS

Matlab/Octave

Python

Scilab

SolidWorks

Solid Edge

Lantek Expert

Microsoft Excel

Microsoft Word

HTML

CSS

LENGUAJES

- Propose and implement a numerical solution to boundary value problems, based on the method of isogeometric boundary elements applied to the calculation of electric current and potential distribution.

PUBLICATIONS


Publicaciones

- HDeAvila (2018). "EVALUATION OF ISOGEOMETRIC BOUNDARY ELEMENT METHOD FOR CALCULATION OF ELECTRICAL POTENTIAL AND CURRENT DENSITY ON GALVANIC COUPLE". in: *Congresos ENIEF/MECOM 7*.

STUDIES

Master in Mechanical Engineering

Universidad Tecnológica de Bolívar

 July 2020

Degree work: Isogeometric boundary element method applied to the calculation of potential and electric current density in a galvanic cell

Mechanical engineer

Universidad Tecnológica de Bolívar

 April 2015

High School

Ciudad Escolar Comfenalco

 December 2009

Ingles



Español



REFERENCES

M.Sc Luis Miguel Pérez Pertuz

 lpertuz@outlook.com

 3013837783

University professor

Universidad Tecnológica de Bolívar

M.Sc Nelson Forero Salcedo

 nefosa@hotmail.com

 3014853702

Production Engineer

COTECMAR

M.Sc José Alberto Martínez Trespalcios

 c.invgarquitectura@colmayorbolivar.edu.co

 3137183015

Research coordinator

Institución Tecnológica Colegio Mayor de Bolívar

Luis Mauricio De Avila Pereira

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 3165628377

Organizational psychologist

Comfamiliar Atlántico