Contact me

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Education

Master's Degree (Sep. 2014 - Dec. 2015)

Management in the oil and gas industry

Instituto de Estudios Universitarios

Average: 9.8 / GPA: 3.92

\*Conferred with honorific mention

Bachelor's Degree (June 2006 - Dec. 2010)

Mechatronic Engineering

Instituto Tecnológico de Reynosa

Average: 9.0 / GPA: 3.6

\*Graduated with honors: Third place

Creation of engineering procedures and development. Initiating the process re-engineering for dehydration plants, including field data collection and using Solidworks software for 3D installation design. Preparation of technical drawings and assignment of part numbers to components and assemblies.

Development of software for material inventory control, including the assignment of QR codes for process automation (software development using Excel macros and Visual Basic).

Proposal of new technologies aimed at improving the company. WORK EXPERIENCE

Design Engineer III (Heat trace engineer)

NVENT Thermal Management / Pentair

NVENT: (May/01/2018 – February/22/2023) (Including 3 years remote) PENTAIR: (February/09/2015 – April/30/2018)

DURATION: 8 years and 13 days

Management of Heat Trace Projects in the USA, Canada, and Mexico. Design of Heat Trace circuits using Tracerlynx and Tracecalc software for Petrochemical plants, Oil & Gas industries, Refineries, and the food industry in the USA, Canada, Europe, and Mexico.

Specialist in the calculation and design of vessel tanks, exchangers, filters, and special equipment for Canada, the USA, and Mexico. Approval of designs in accordance with standards and project requirements. Preparation of Project Estimates, including Bill of Materials (B.O.M.), deadlines, circuits, and costs.

Training of new engineers through courses covering Heat Trace, cable types, vessel tank design, heat loss analysis, design standards, electrical drawings, and more.

Verification of circuits designed by others, including checking B.O.M., Heat Loss, Circuit Breaker, Diagrams, etc.

Creation of Heat Trace Circuit drawings using AutoCAD. Development of custom and dynamic blocks in AutoCAD and programming in Lisp. Interpretation of P&ID (Piping and Instrumentation Diagrams), Piping Isometrics, General Arrangement drawings, and Area Classification and Zone drawings. Compilation of packages in Bluebeam with instructions for executing designs. Preparation of Power Distribution Diagrams.

Utilization of Proman and SAP software for project time management. Development of software for calculating heat tracing quantities for cables and special equipment (vessel tanks, domes, filters, etc.) using Excel macros and Visual Basic.

Chief Engineer and Development

Atlantic Oil México S.A. de C.V.

SINCE: (March/11/2014 – February/06/2015)

DURATION: 10 months and 26 days

Managed the engineering department.

Participated in the development of patented artificial production units. Designed units for the oil industry using Solidworks software, creating each component and assembly, including:

Fluid Pumping Units Artificial Lift Production Control Cabin Coiled Tubing Unit Wet-Kits Reel Coiled Tubing

Analyzed and controlled the materials used for various designs. Developed and controlled engineering drawings for the construction of units. Developed software in Visual C# to calculate the capacity of reel coiled tubing for design purposes.

Prepared technical design proposals for bidding on units for PEMEX. Participated in PEMEX's tender process under license number 18575088-540-13. Registered and controlled manufactured units.

Assigned and managed serial numbers and part numbers. Developed the company catalog.

Verified designs against dimensional standards and national weight requirements for transportation.

Developed engineering procedures for the implementation of ISO 9001. Chief Design Engineer

Avantub S.A. de C.V.

SINCE: (March/16/2011 – March/11/2014)

DURATION: 3 years and 5 days

Courses &

Certificates

• Certified Solidworks Professional CSWP.

• Solidworks simulation professional

course.

• Solidworks routing, tubing & piping.

• Operation and maintenance of artificial

production equipment.

• Wellcap combined supervisor level.

• IADC Rig pass.

• Internal auditor training ISO 9001: 2008 /

ISO 19011: 2011.

• Course: ISO 9001:2008.

• Work-at-height course.

• Use and care of autonomous air.

• Strategy Development.

• Positive Atmosphere – Establishing an

Engaged Workforce.

• Project Management Essentials.

• Decision making – Tools and Techniques.

• English course at Harmon Hall.

• Fraud and integrity in business.

Languages:

• Native Spanish

• Advanced English

Design Software

• Autocad

• Automation Studio

• BlueBeam

• Draftsight

• Festo Fluidsim

• Multisim

Management

software

• @Risk 7

• Excel

• Mindmanager

• Microsoft Project

• OneNote

Video and Edit

software

Programming

software

Artificial Intelligence

Software

Cyptocurrency

Software

3D Print Software

• Navisworks

• Proteus

• Proman

• SolidWorks

• Tracecalc

• TracerLynx

• PowerPoint

• SAP

• Teams

• Word

• Zoom

• Adobe Acrobat

• Adobe After Effects

• Adobe Illustrator

• Adobe Photoshop

• Capcut

• CorelDraw

• OBS

• Photopea

• Sony Vegas

• Wondershare

Filmora

• C

• C++

• C18

• Java

• Lisp

• Python

• Microcontroller

programming

• Unreal Engine

• Visual Basic

• Visual C#

• Bluewillow

• Chat Bing

• Chat Bard

• ChatGPT

• DALL-E

• Leonardo

• Midjourney

• PIKA

• Seart

• Stable Diffusion

• SUNO

• Tensorart

• Topaz Photo AI

• Topaz Video AI

• Binance

• Bitso

• Metamask

• Tradingview

• Chitubox

• UltiMaker Cura

• Photon Workshop

Knowledge & Skills

• 3D Animation software.

• 3D Print.

• Engineer training.

• Formatting and computer maintenance

• Instrumentation, mechanical, and

electronic equipment.

• Laser cutting and engraving.

• Manage engineering projects.

• Mechanical engineer software (2D & 3D).

• Network connection to devices.

• Oil & gas industry designer.

• Pneumatic, electro-pneumatic, and

hydraulic circuits.

• Programmable logic controller (PLC).

• Project Lead.

• Software development using

programming tools.

• Video development and editing.

Design Engineer Portfolio:

https://www.behance.net/gallery/157180339/D

esign-Engineer

https://www.behance.net/gallery/181409129/Gra

phic-Design-AI-Video-Editing-Content-Creator

Digital Digital Art Art Portfolio: Portfolio:

Daniel

Hernández

Hernández

Daniel

Hernández

Hernández

Main Portfolio: