## **Brandon Hernández**

## Metallurgy and materials engineer

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## **Experience**

BOCAR Group Toluca, México

Metallurgy engineer

April 2023- January 2024

- Characterization of materials by optical microscopy, x-ray fluorescence spectrometry and SEM.
- Validation of mechanical properties and hardness for finished products according to OEM specification.
- NDT-Industrial Ultrasound 1 Junior.
- Material failure analysis and technical support for national and international plants.
- Development of procedures for metallurgical testing and equipment operation.
- Quality inspection of raw material according to requested specification.
- Identification of defects and their root cause.
- Data analysis for decision making.

Carviflon S.A. de C.V. Hidalgo, México

**Quality Inspector** 

January 2022-December 2022

- Implementation of PPAP (Core Tools) in the production area for a Tier one company.
- Quality assurance of components through visual, dimensional, mechanical and chemical evaluations.
- Development and update of procedures in the different areas through the creation of operation sheets and flow charts.
- Final product release and issuance of material certificates.

Carviflon S.A. de C.V. Hidalgo, México

Metallurgy and materials technician

September 2021-December 2021

- Dimensional inspection of produced components.
- Updating of risk matrices for the industrial safety area.
- Performance of mechanical tests and issuance of reports.
- Implementation of Personal Protective Equipment to be used in different areas.

ESIQIE CDMX, México

Research assistant laboratory

January 2019-February 2020

- Analysis of metal recovery through solutions of mineral concentrates.
- Development and performance of hydrometallurgical tests.
- Atomic absorption determination of precious metals.

Metallurgy and materials engineerin

Education

Idiomas

English - Intermediate

Machine Technician with automated systems
Data Analysis
Project management
CECYT 16 – IPN
Google-Coursera
Google-Coursera

## **Skills**

**ESIQIE-IPN** 

-Creativity -Teamwork - Adaptation to change - Leadership - Effective communication - Data analysis - Project management