



# JAIR ARMANDO CORCHO RUEDA

## MECHANICAL ENGINEER

[jhair.corcho@gmail.com](mailto:jhair.corcho@gmail.com)

Mechanical Engineering with knowledge in electronics and programming systems for maintenance of mining equipment. Committed, with a pro-active attitude, excellent relationships interpersonal, I adapt easily to different work environments, innovating tools to carry out excellent teamwork aimed at achieving objectives and strategic goals proposed by the company in function.



### CONTACT

- 72.274.755 from Barranquilla
- July 30, 1982
- Carrera 5 No 40-77  
Barrio la Magdalena
- [3106056479](tel:3106056479)
- [jhair.corcho@gmail.com](mailto:jhair.corcho@gmail.com)

## KNOWLEDGE AND SKILLS

### PROGRAMMING LANGUAGES

- HTML
- CSS
- MySQL
- Javascript
- Java para Android Studio
- Microsoft Visual Studio
- Microsoft Excel
- Microsoft Word
- Microsoft Access
- Microsoft Project
- Microchip / Communication of sensor data by wifi
- Microchip / Communication of sensor data by bluetooth

### SKILLS

- Leadership
- Teamwork
- Innovation
- Proactivity
- Compromise
- Effectiveness

### KNOWLEDGE

- ✓ 5S Methodologies
- ✓ Scrum
- ✓ Personnel management
- ✓ Six-sigma
- ✓ B1 English

# EXPERIENCE

## HITACHI SHOVEL SUPERVISOR

September - November 2017

### CHM MINERIA S.A.S.

- ▶ Receive the backlog generated from the backhoe loader from the shift supervisor
- ▶ Make planning with the technical workers and resources in charge based on the pending and the times programmed by the external client to evaluate the shovels.
- ▶ Verify and validate that the security documentation is duly completed before doing the job.
- ▶ Review and validate that the daily report formats are duly completed and Backlog generated by the technical staff during the times programmed by the external client to evaluate the shovels.
- ▶ Validate work orders generated by equipment shutdowns.
- ▶ Make a record of what was executed in the shift and pending so that they are scheduled by the manager of the next shift.
- ▶ Receive the PM folder from the equipment that contains the printed schedule in Microsoft Project, Backlog along with your work order and manufacturer's forms.

## HITACHI WORKSHOP SUPERVISOR

February 2018 - February 2019

### CHM MINERIA S.A.S.

#### GENERATE THE WEEKLY SCHEDULE AND PROJECTION OF EACH COMPONENT INSPECTION, REPAIR AND RECONSTRUCTION ACCORDING TO:

- ▶ Assign the tasks to the technicians according to the weekly inspection schedule, evaluations and repairs according to available resources and man hours per shift.
- ▶ Manage supplies and spare parts with the warehouse for timely compliance with the schedule daily and report any unforeseen for reassignment of tasks in agreement with the programming engineer.
- ▶ Evaluations resulting from inspections carried out by technical personnel to requisition of spare parts, services and supplies for the repair.
- ▶ Component tests to certify correct repair.
- ▶ Listing and dispatch of repaired components.

## SCHEDULING ENGINEER

February 2019 - July 2020

### CHM MINERIA S.A.S.

#### COORDINATE WITH THE MANAGEMENT AND PLANNING DEPARTMENT:

- ▶ Requisition of spare parts and supplies with SAP IW32 transaction and weekly / monthly schedule for the execution of preventive and corrective maintenance of the company's support teams, establishing improvement actions to reduce repair time and stoppages and increase the percentage of the availability indicator and effective machine hours.
- ▶ Schedule weekly according to monthly projection of PM of equipment, the execution of actions improvement and evaluate, according to the execution reports, the effectiveness of said intervention, taking as a parameter the increase of the effective machine hours indicator
- ▶ Graphically validate improvement actions with normal distributions to reduce maintenance downtime and according to monthly projection the availability of spare parts, supplies, support equipment and third-party services evaluated and verified to generate the weekly equipment maintenance schedule.

#### GENERATE THE WEEKLY SCHEDULE AND PROJECTION OF EACH COMPONENT INSPECTION, REPAIR AND RECONSTRUCTION ACCORDING TO:

- ▶ Man hours, machine hours and tool hours in welding workshop and components.
- ▶ Supplies and spare parts inventory availability.
- ▶ Request services from suppliers through the planning department to complete component repairs with the execution of the transaction.
- ▶ Implementation of standard work times through projection codes to generate indicators of effectiveness for technical staff and efficiency for the component inspection, repair and rebuilding process.
- ▶ Follow up with the supervisors of the progress of the work during the shift through the projection codes recorded by technicians in their shift reports.
- ▶ Monthly report the indicators of programming compliance, relating delays in processes, unforeseen events, disabilities, percentage of attendance, available hours, effective hours, executed hours, efficiency of technical staff.

# EDUCATION

**UNIVERSIDAD AUTONOMA DEL CARIBE**

2009

MECHANICAL ENGINEER

**SENA**

2005

GASOLINE INTERNAL COMBUSTION ENGINE REPAIR TECHNICIAN

**CETESAU**

2005

HYDRAULIC SYSTEMS TECHNICIAN

**JOHNS HOPKINS UNIVERSITY**

2021

HTML, CSS, AND JAVASCRIPT FOR WEB DEVELOPERS

[Ver Certificado >](#)

**UNIVERSITY OF CALIFORNIA, DAVIS**

2021

SQL FOR DATA SCIENCE

[Ver Certificado >](#)

**VANDERBILT UNIVERSITY**

2021

JAVA FOR ANDROID

[Ver Certificado >](#)

# ACHIEVEMENTS

## DEVELOPMENT OF WEB APPLICATION FOR INSPECTION AND MAINTENANCE OF REFRIGERATION EQUIPMENT

Construction of web application for monitoring refrigerators

- ▶ Monitor refrigeration equipment pressures, temperatures and other parameters in real time through a Wi-Fi network
- ▶ Generate alerts in the event that any refrigeration equipment is operating in out-of-parameters conditions.
- ▶ Generate work orders for preventive and corrective maintenance
- ▶ Generate indicators of effectiveness of technical staff and efficiency of the process of the executed work orders.
- ▶ With a database, track traceability and generate KPI indicators to evaluate the reliability of the equipment.

The screenshot displays the Freezeer Monitor web application interface. On the left, a sidebar menu includes 'Smart Mining', 'MONITOREO DE EQUIPOS' (Sensors, Alarms), 'MANTENIMIENTO' (Work Orders, PM), and 'Planeacion'. The main content area shows real-time monitoring data for a unit, with parameters like Presion Alta (250 PSI) and Presion Baja (35 PSI) both within their respective ranges. A line graph tracks pressure over time, with a red dot indicating a high-pressure alarm. To the right, an 'Alertas' (Alerts) section shows a specific high-pressure alert for 'Presion Alta' at 662 PSI on March 13, 2021, with options to 'Generar OT' (Generate Work Order).

The screenshot shows a table of inspection and maintenance records. The columns are 'EquipoNo', 'Fecha alarma', and 'Parametro a estandarizar'. The data shows multiple entries for 'equipo01' across different dates, mostly reporting 'Presion Alta' or 'Presion Baja' issues. At the bottom, a message indicates 'Showing 1 to 10 of 14 entries' with navigation links for 'Previous', '1', '2', and 'Next'.

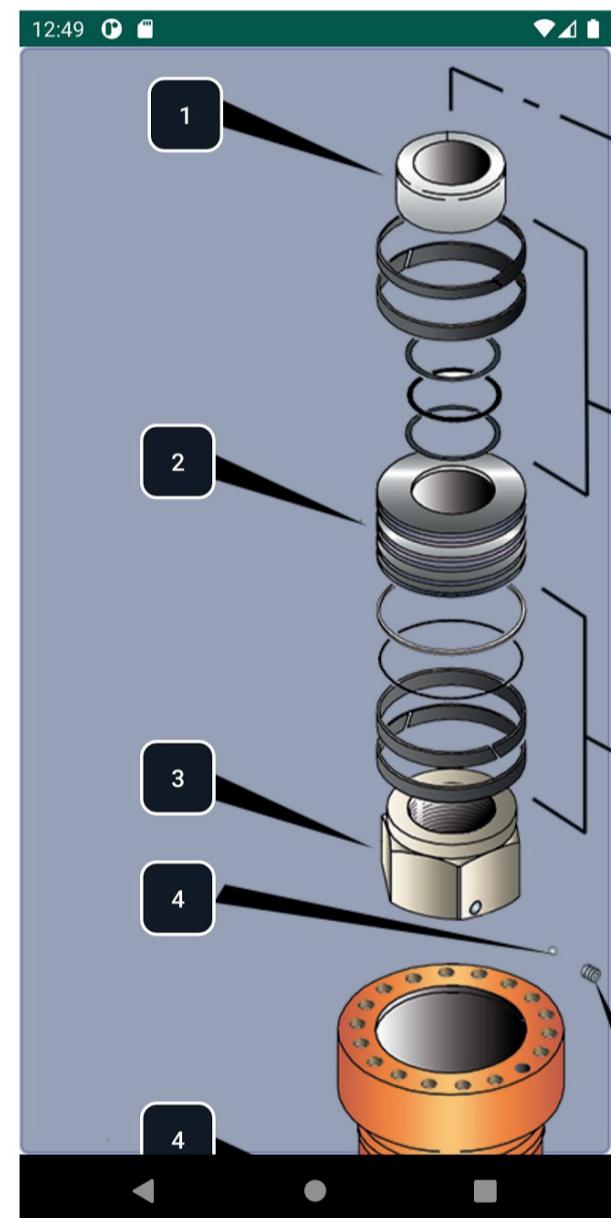
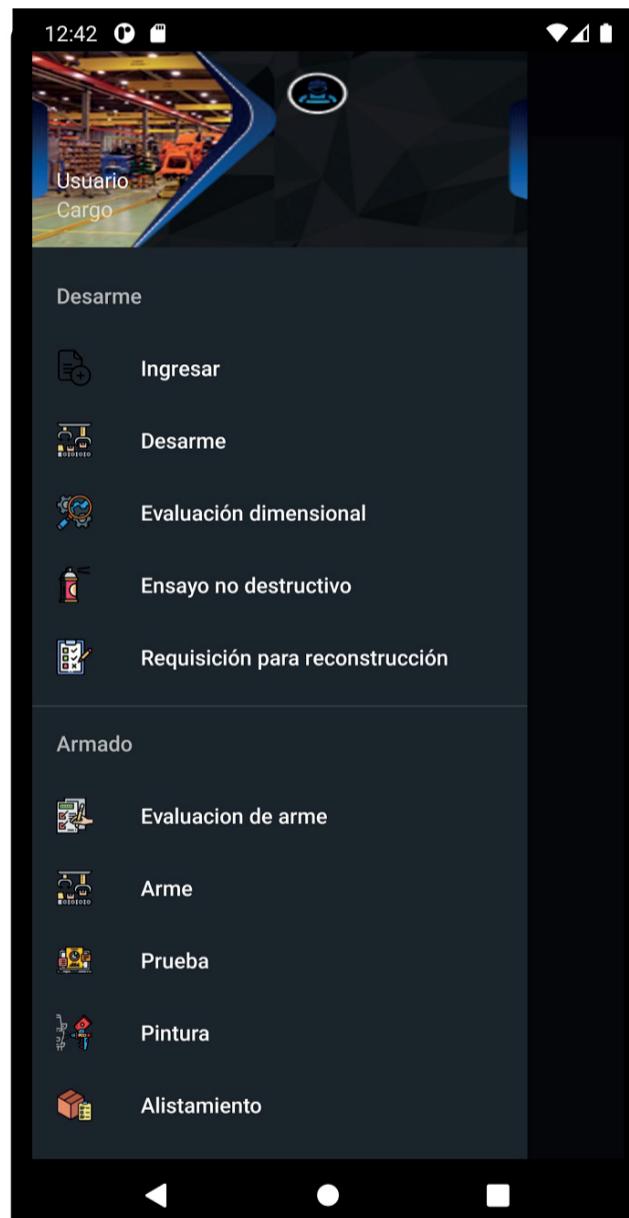
EquipoNo	Fecha alarma	Parametro a estandarizar
equipo01	2021-03-13 00:00:00	Presion Alta
equipo01	2021-03-13 00:00:00	Presion Alta
equipo01	2021-03-08 00:00:00	Presion Baja
equipo01	2021-03-07 00:00:00	Presion Baja
equipo01	2021-03-13 17:19:07	Corriente

# ACHIEVEMENTS

## APPLICATION DEVELOPMENT FOR COMPONENT INSPECTION AND MAINTENANCE

Android application development with the following functions:

- ▶ Insert data of components and equipment for inspection to the system with MySQL databases.
- ▶ Generation of work list to assigned personnel measuring effectiveness and efficiency in real time.
- ▶ Displays in 3D and in color to report failures and keep the traceability of each part of the component in order to record the life cycle operational
- ▶ Automatic registration of work orders executed by technical staff
- ▶ Generate reports of inspections and maintenance carried out.
- ▶ Calculate indicators of effectiveness of technical staff and efficiency of the process of the work orders executed.



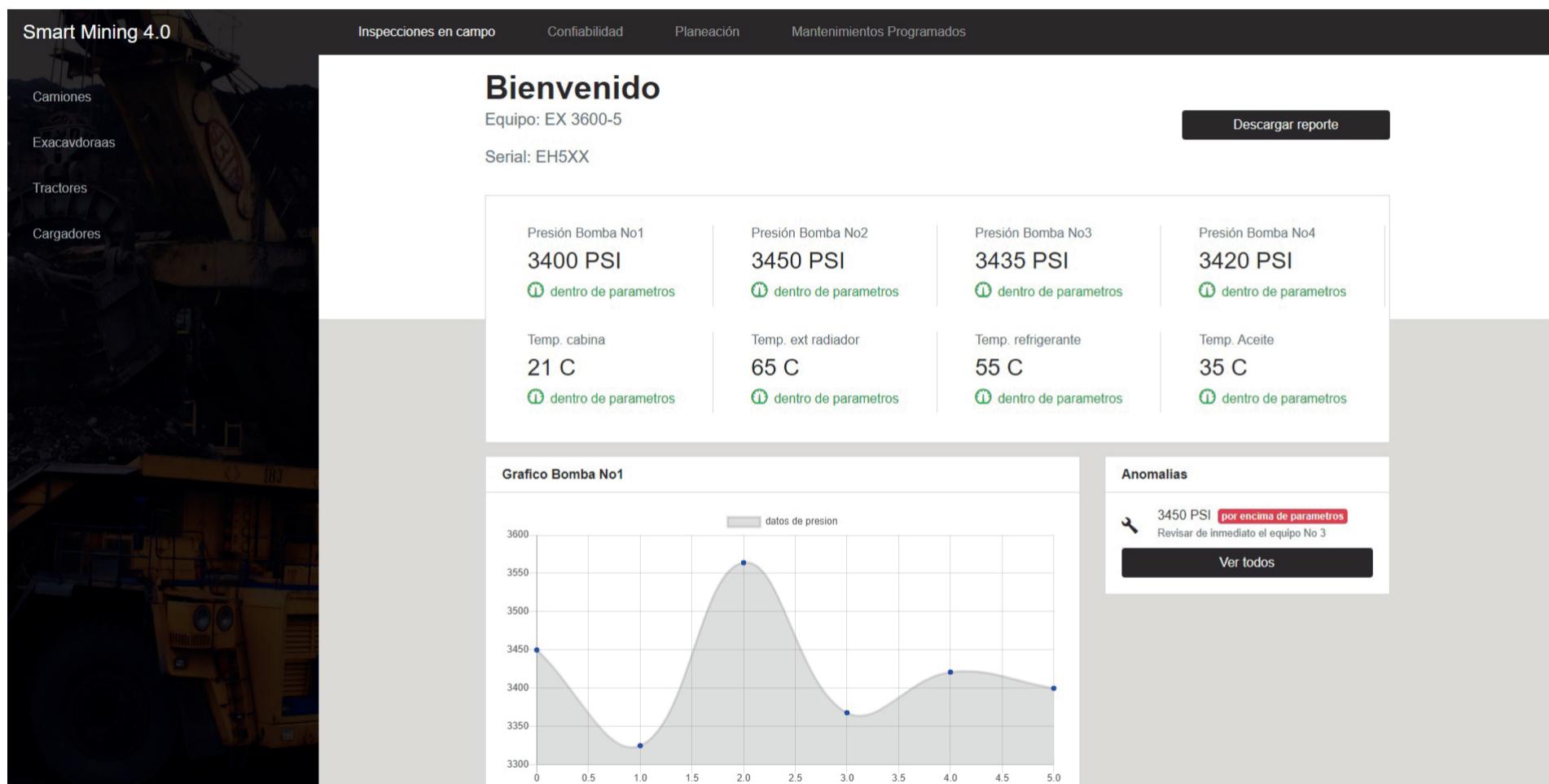
# ACHIEVEMENTS

## DEVELOPMENT OF APPLICATION FOR INSPECTION AND MAINTENANCE OF MINING EQUIPMENT

Construction application for web and Android with the following functions:

- The daily reports and the Backlogs made by the technical staff were generated on site by the application;
- Together with the Backlog, an exploded view was created that untually indicated the affected components.
- Daily reports and backlogs generated in the shift are stored in an online database, where the supervisor with the application connects to see the relationship of the daily report and the Backlogs with the inspected equipment, validating the information to generate the pdf formats with a click and send them to planning through an email.
- Generate automatic alerts if any component is completing its operating cycle and program the preventive maintenance to avoid a down of the equipment.

View traceability and Generate KPI indicators to evaluate the reliability of the components and of the team itself.



# CONTACT

## JOB REFERENCES

👤 Jorge Hernández  
CSM CHM Minería Workshop manager  
**3102481953**

👤 Alexander Hurda  
Mechanical engineer  
**3216569072**

👤 Jaime Llinas  
Electronic Engineer  
**3218234854**

## FAMILY REFERENCES

👤 Gemin Corcho Ruiz  
Accountant  
**3135988524**

👤 Alex Corcho Rueda  
Graphic designer  
**3005712977**