

# FRANCISCO JAVIER PACHECO MURILLO

INDUSTRIAL MAINTENANCE ENGINEER - JPACHECOM4@GMAIL.COM - PH: 477-687-4948

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## WORK EXPERIENCE:

### Group Lead Maintenance - Diecast

[2024 - Present - Acuity Brands (Castight de Mexico). - H. Matamoros, Tam.]

Responsible for the maintenance department of the DieCasting area.

#### Functions and Responsibilities:

1. Coordinate the daily activities of the maintenance team on shift.
2. Supervise maintenance of die casting machines, furnaces, robots, hydraulic and pneumatic systems.
3. Implement and execute the preventive maintenance plan.
4. Follow up on critical failures and generate corrective actions to prevent recurrences.
5. Ensure proper documentation of maintenance activities in the CMMS (Computerized Maintenance Management System).
6. Participate in root cause analysis (RCA) and apply methodologies such as 5 *Whys*, 8D, etc.
7. Coordinate with production to schedule maintenance without affecting output.
8. Ensure compliance with safety standards and proper use of PPE.
9. Manage spare part and tool requisitions.
10. Propose and implement improvements to increase equipment efficiency and reliability.
11. Train technical staff on maintenance and safety best practices.
12. Participate in internal and external audits related to maintenance.
13. Follow up on the installation of peripheral robots in die casting cells.
14. Coordinate and supervise the reception, installation, and commissioning of two fully automated cells.

#### Personnel in charge:

- 7 Maintenance Technicians

### Diecast Maintenance and Automation Technician

[2020 - 2024 - Autoliv Mexico East. - H. Matamoros, Tam.]

Lead technician in the Diecasting area, including hot chamber melting furnaces, machines (Bühler), their lubrication robots, deburring presses, and laser markers (maintenance, programming, and modification of PLC programs for these devices). Also carried out improvements and projects in the die casting area, such as implementing Poka-Yoke systems with vision systems and PLCs. Some of the projects I participated in include: adding new models to the laser marker, modifying and retrofitting machines, and integrating traceability into the process.

Responsible for scheduling monthly maintenance of production cells. Implemented improvements to further automate the area. Focused mainly on control system development.

#### Personnel in charge:

- 3 Maintenance Technicians
- 2 Mechanics

## **Automation Technician**

*[2017-2019 - Summit Mexico Management – Silao de la Victoria, Gto.]*

Responsible for 38 Wittmann robots in the molding area: installation, programming, and maintenance. In charge of maintaining 38 injection molding machines (Van Dorn and Krauss Maffei, 230 to 1100 tons). Generated purchase orders for spare parts and managed a robust stock of spare parts. Designed and assembled EOATs (end-of-arm tools) for each mold, as well as conveyor belts and safety cages for robots. Installed new molding machines upon plant arrival. Responsible for 4 assembly lines and 2 paint booths, including maintenance and modification of 140 devices (fixtures). Implemented improvements such as Poka-Yokes, “red rabbits,” and other quality assurance systems. Responsible for validating processes and devices with customers such as GM, Volkswagen, and Jeep.

## **Maintenance Technician**

*[2015 - 2017 - Fisher Dynamics - H. Matamoros, Tam.]*

Responsible for 3 assembly lines, in charge of maintaining said lines and debugging problems from newly arriving assembly lines. Programmed some PLC routines for improvements.

## **Process Technician**

*[2014 - 2015 - Core Molding Technologies - H. Matamoros, Tam.]*

Responsible for 5 assembly lines, validating the entire final product assembly process (Hoods, Hi/Sky Rise, and service parts) for various clients (Navistar, Volvo, and Paccar). Modified and created programs for Fanuc robots for high-pressure water material cutting.

## **Electrical Technician**

*[2013 - 2014 - Tecnologia y Diseños HIGOH - H. Matamoros, Tam.]*

Manufactured and wired accessories for clients. Interpreted electrical and pneumatic diagrams required by clients. Responsible for wiring control panels, sensors, switches, PLCs (including program modifications), LVDT calibrations, relays, HMIs (including program modifications). Provided maintenance services for customer equipment such as TRW (Reynosa), Erika (Reynosa), Trico (Matamoros), Magna Closures (Saltillo, Coahuila), and others.

## **SKILLS AND STRENGTHS:**

### **- ADMINISTRATIVE:**

- Personnel management
- Maintenance KPIs (MTTR & MTBF)
- Microsoft Office Suite
- Teamwork

### **- AUTOMATION:**

- Rslogix/Studio5000 (Allen Bradley PLC, Certificate of .4 hrs of training.)
- CX-Programmer (OMRON PLC, Certificate of training.)
- TIA Portal (Siemens PLC [Basic], Certificate of basic knowledge.)
- Keyence Vision Training

### **- PROGRAMMING:**

- Python
- GNU/Linux

### **- LANGUAGES:**

- English 80%

## **GENERAL SKILLS:**

- Electricity and electronics
- Hydraulics
- Pneumatics

## **EDUCATION:**

**TECHNOLOGICAL UNIVERSITY OF MATAMOROS, 2015.**

*Bachelor's Degree in Industrial Maintenance Engineering. P.L: 10985535*