



# Arturo De La Peña Almanza

## Profile

Mechatronics Engineer graduated from Tecnológico de Monterrey with experience in automation of production lines in the automotive area.

## Contact

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**Location:**

Monterrey, Nuevo León, Mexico

[arturodlp.com](http://arturodlp.com)

## Spoken Languages

**Spanish**

Native

**English:**

Advanced (TOEFL 643)

**German:**

B1

## Programming Languages

**Python: 5+ Years**

- (Pymysql, pyodbc, pandas, selenium, API requests, OpenCV, JSON, Django)
- Object Oriented Programming

**Labview: +2 Years**

**PLC Ladder, SCL: +5 Years**

**JavaScript: +1 Year**

**C++: +1 Year**

**HTML/CSS: +1 Year**

## Competencies:

- Proactive
- Work under pressure
- Adapt to change
- Teamwork
- Fast learner

## Professional Background

**Borbolla Automation**

**Automation Engineer | December 2018 - October 2021**

Development, design and implementation of different mechatronic systems, such as Interlocking systems, HMI / GUI, and SCADA systems.

- Design and use of MYSQL, MS Access and MS SQL databases.
- Main server configuration (Ubuntu Server).
- Backend and frontend design of SCADA real time monitoring systems.
- Communication protocols (EthernetIP, TCP/IP, HTTP, MQTT RS232)
- Python scripts (Pandas, pymysql, Selenium, pyodbc).
- Electric circuits simulation (NI Multisim, FluidSim, LT Spice).
- PLC programming (Siemens s7-1200) for Interlock.

**R&E Automated**

**Controls Engineer | November 2021 - Now**

*Amazon Warehouse PDX9 - Portland, Oregon*

Debugging and improvement of a flat sorter robotic cell. Python scripting, Ethernet IP to develop a script that automatically gathers information from an Allen Bradley PLC to generate a complete report of a cell's efficiency. Electrical debugging of a 480V robotic system.

*Amazon Lab126 - San Jose, California*

Material selection and investigation for a PCR covid19 tester machine. Reading / interpreting electrical drawings. Sensor / actuator selection. Keyence and Omron PLC coding. Festo servomotor driver programming and integration with PLC. Communication protocols such as Ethernet IP and EtherCat.

*General Motors - Ramos Arizpe, Coahuila*

Startup, Integration and Commissioning of a RASC System consisting in a collaborative Fanuc robot, a Siemens HMI and an Allen Bradley PLC. All of the changes following GM's GCCS standard.

## Academic Formation

**Tecnológico de Monterrey (ITESM)**

**Mechatronics Engineering | August 2016 - June 2021**

## Software

MYSQL, Node Red, Siemens TIA Portal, Studio 5000, Keyence KV Studio, VT Studio, Omron Sysmac Studio, LabView, Matlab/Simulink, LT SPice, Multisim, Fluidsim, Solidworks