

# DANILO DÍAZ

▲ Project Engineer  
▲ Data Analyst

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🌐 in/danilo-diaz

## WHO AM I?

I am an honest person, responsible and with sense of belonging. I have good interpersonal and professional relationships; I am a person with own initiative, with high orientation to achievement, discipline and demand.

I have aptitude for teamwork and skills for leadership by focusing my work on management and sharing collective knowledge to reach assertive results. In addition I am a good under pressure worker and I am a quick learner. .

## EDUCATION

2020 - 2021	<b>Specialization</b> Data Analyst	UDEA
2012 - 2016	<b>Bachelor's Degree</b> Mechanical Engineer	EAFIT University Score: 4.2 / 5
2015 - 2016	<b>Academic vocational training</b> Integrated design of technical systems	EAFIT University

## PROJECTS

### Active Member of a Machine Learning study group

The objective of the group is to ensure that its members obtained an advanced level in machine learning knowledge and to develop innovative projects in the city.

### Demand Forecasting in Warehouses with Machine Learning

Logística y ATP, Medellín

Implement machine learning models to predict product's demand and picking times, to improve the processes inside the warehouse.

### BOM with Sql and Excel.

Plastiquimia S.A.S

A bill of materials(BOM) explosion displays an assembly at the highest level broken down into its individual components and parts at the lowest level, this application was implemented in SQL and Excel.

### A Robotic System capable of pouring drinks to its user

EAFIT University, Medellín

The prototype robot performs tasks such as pouring drinks in collaboration with a built-in camera which creates a supplying live vision of the surroundings. The project goal is fully defined as a robotic prototype that can mimic some waiter's tasks using artificial vision, inverse kinematics and control the pump of the liquor's flow.

## EXPERIENCE

4/2019 –  
Full time

### Project Engineer

Logística y ATP, Medellín

- ▲ To develop model algorithms for logistics application.
  - ▲ Estimate the duration and costs of projects.
  - ▲ Analyze customer data to propose efficient solutions that improve processes along the supply chain.
  - ▲ We Warehouse design.
- logistica.net.co / atp.net.co

3/2018 – 3/2019  
Full time

### Coordinator of Application Engineering

Colplast S.A.S.

- ▲ To formulate, design and control the projects of the sub-management for the development, implementation, testing and production concerning plastics transformation.
- ▲ Determine the scope of the project together with the resident managers and engineers, to establish the activities and resources required for its successful completion.

8/2017 – 3/2019  
Full time

### Mechanical Maintenance and Project Engineer

Plastiquimia S.A.S

- ▲ I created an Excel and Python program capable of anticipating the company energy cost per machine.
- ▲ I created several application that helps with the maintenance and management in Excel.
- ▲ 3D modeling in detail engineering using Solidworks, Auto Rhinoceros

1/2014 – 9/2016  
Part time

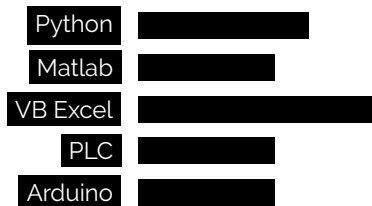
### Mould and die design apprentice

TECNOMEC S.A.S

- ▲ 3D modeling and detailed engineering in CAD programs (Solidworks and Rhinoceros).
- ▲ Programming macros and applications in Excel.
- ▲ 3D modeling in detail engineering using Solidworks, Auto Rhinoceros

## TECHNICAL STRENGTH

### Programming languages



### Programming Libraries



### Software & Tools



## ACADEMIC ACHIEVEMENTS

Author of the article "**A Robotic System capable of pouring drinks to its user**", currently under review at Inderscience publishers.

EAFIT University, Medellin

Teaching assistant in **Modular lightweight construction F2**.

EAFIT University, Medellin

Teaching assistant in **CAD/CAM/CAE**.

EAFIT University, Medellin

## COURSES & CERTIFICATIONS

**English Certificate**  
English Level :**Advanced : C1**

KI, Vancouver

**SolidWorks**  
Mechanical Design at the level of PROFESSIONAL.

Dassault Systmes - SolidWorks 201

**Machine Learning Course.**

Stanford - Coursera 2018

## LANGUAGES

**Spanish** - native  
**English** - proficient **IELTS 6.5**

## HOBBIES

- ▲ I enjoy spending time with my family and friends.
- ▲ I am passionate about practicing and watching sports, specially soccer.
- ▲ I enjoy being an active member of Machine Learning study group.