

# José Abraham Pérez Martínez

## Mechatronics Engineering Student

🖥️ <https://abraham1798.github.io/>

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### CURRENTLY JOB - SINCE AUGUST 2019

#### UNDERGRADUATE CONACYT RESEARCHER

CONACYT (Consejo Nacional de Ciencia y Tecnología) of Mexico. Project ID: FOMIX CONACYT-SICYT  
Implementing an education model for Jalisco Digital University in the creation of virtual and physical laboratories using Python. Node-Red, hosting such as Apache and Nginx in Linux.

#### AUTONOMOUS CAR (iDrive)

Programming navigations algorithms, automatic control and computer vision in a real car with a Jetson TX2 Nvidia, ZED Camera and a NXP module  
[www.github.com/abraham1798/idrive](https://www.github.com/abraham1798/idrive)  
[www.bit.ly/JeepNotice](https://www.bit.ly/JeepNotice)

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*I am a Mechatronics Engineering student at Tecnológico de Monterrey Campus Guadalajara with a GPA of 91/100. I am a person interested in Programming, Computer vision, Control Engineering and Robotics. I feel identified with the following phrase*

*“ If you can imagine, I can code it ”*

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### SKILLS

#### SOFTWARE

Python, C++, C, HTML, CSS, Linux, ROS, CATIA, SolidWorks

#### LIBRARIES

OpenCV, Numpy, Matplotlib, TensorFlow, Socket

#### ABILITIES

Leadership, team work, under pressure work

### EDUCATION

B.S. Mechatronic Engineering at Tecnológico de Monterrey Campus Guadalajara 2021 (Expected)

July 2014, High School, CBTis 226, Ciudad Guzmán Jalisco México

July 2014. programming technician

### LANGUAGES

English - B2 Bulats Cambridge

Spanish Native

### CERTIFICATIONS

- School of Applied Mathematics and Control - EMAC  
Certificated by Instituto Potosino de Investigación Científica y Tecnológica (IPICYT)

- Course of Mobile application development, Certificated by Universidad Complutense de Madrid.

### EXTRA INFORMATION

Cellphone: +52 1 341.155.7781

Linkedin:  
<https://www.linkedin.com/in/abraham1798/>

Residence: Guadalajara, Mexico

### JOB EXPERIENCE

DECEMBER 2019 - MAY 2020

#### INTERN ROBOTICS

FLUXING ENGINEERING - GUADALAJARA, MEXICO.

Designing an AVG Robot using a NXP microcontroller, mapping the room using an RPLidar A1 in a SLAM ROS environment, and a camera for real-time transmission displayed on a web page  
[https://abraham1798.github.io/AVG\\_Robot/](https://abraham1798.github.io/AVG_Robot/)

MAY - JUNE 2019

#### INTERN HARDWARE SYSTEM INTEGRATION

SMART FACTORY - NUEVO LEON, MONTERREY.

Hardware System Integration, I developed technology, used Debian-based computer operating system, use of serial communication I2C and SPI focused in industry 4.0  
[www.smartfactoryacademy.com](http://www.smartfactoryacademy.com)

AUGUST 2017 UNTIL NOW

#### MECHATRONIC ENGINEERING STUDENT

TECNOLÓGICO DE MONTERREY, CAMPUS GUADALAJARA

During my stay at the institution I have carried out various activities:

Founder / President of the student group “Robotec”, Robotics group of the Institution (2018)

Having participation in international Robotics tournaments:

I collaborated in the National Laboratory for Robotics - CONACyT-ITESM. DronTec is a microdron. It is controlled with classic theory of control PID and it has a simulator with Gazebo 9.0 in Robot Operating System - ROS.  
[www.github.com/microdron-itesm](https://www.github.com/microdron-itesm)

Roborave México 2018/2019. Category Sumo Bot 3 kilograms.

Mexican Robotics Tournament 2019, Machine Learning using R-CNN for can detection. Category Beach cleaning robots

I have attached the link that shows my portfolio: [www.bit.ly/AbrahamPerez](http://www.bit.ly/AbrahamPerez) or in my personal website <https://abraham1798.github.io/>