

# David A. Toro M.

## EDUCATIONAL DETAILS

**Year 2013-2019**  
**Medellín-Colombia**

Título Ingeniero Mecánico  
*EAFIT University*

**Year 2019-2019**  
**Jul 15 – Nov 29**  
**Medellín-Colombia**

Specialization Integrated Design of Technical  
System  
*EAFIT University*

## ACTION FIELD

lot automation, robotics, control, electronics, programming (Software Development, Backend Developer) and mechatronics area. 3D printing design, PCB with CNC milling and laser engraving.

## PROGRAMS

Python: 7 year  
React js: 3 year  
Matlab: 3 year  
LabView: 4 year  
EAGLE: 3 year  
SQL: 4 year  
SolidWorks: 5 year  
ROS: 6 months  
MongoDB: 6 months  
CSS: 4 year  
JavaScript: 4 year  
Boopstrap: 4 year  
Git y Github: 3 year

Arduino: 5 year

AWS EC2: 2 year  
Proteus: 5 year  
Docker: 1 year

MQTT: 2 year

## ABILITIES

*Teamwork, tolerant, Dynamic, proactive, leader, responsable, innovative, restless about knowledge.*

## PROFESSIONAL DETAILS


SEREMPRESA, Development of Technological  
Python Developer position



1. Responsible for providing maintenance and improvements to a system developed in Flask (Python), relational SQL database (Postgres, BigQuery) and non-relational NoSQL (Redis, MongoDB), with JSON communication protocols, REST API, assembly of the service in AWS EC2 with Docker, version control with Gitlab and github.
2. Development of capturing the barcode of the Colombian ID cards by means of a camera to read all the necessary data with Python and OpenCV, with REST API, version control with Gitlab and github.
3. Development of shopping center information board apps with Django (Python), with JSON communication protocols and REST API. With SQL database. Setting up the service on AWS EC2 with USWGI and NGINX, version control with Gitlab and github.
4. App development with Django (Python), postgres database and unrelated Redis AWS EC2 server with USWGI and NGINX, version control with Gitlab and github.

## ABOUT ME


I'm a professional with more than 7 years of experience in the automation area, with a focus on development

## CONTACT

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 Youtube: David Antonio Toro Medina

 Torosky92

Date 2021-Currently Working  
Medellín-Colombia

5. Development of web scrapping to capture data relevant to the client's needs through Django and Selenium. In addition, data analysis was entered through machine learning using the Decision Tree concept.

## **REDEPESCA SAS, Industry Sector**

### **Industry Developer position**

Changing the thinking of the company in the way of collecting information to make decisions (from doing everything by hand to acquiring the data in real time). Making a private web app for the company as well as the development of its SQL database, as frontend with React Js and backend with Python (Flask).

- Communication between the scales and the system.
- Acquisition of temperature and humidity of the plant through the MQTT protocol.
- Mount the server on AWS EC2

## **FREELANCER, Industry Sector**

### **Industry Developer position**

Tasks or achievements carried out: Consultancy and executor of automation projects in the áreas of electrical, electronics, programming and mechanics. Companies in which projects have been executed:

Redepesca developing its own production system both hardware and software, identification and time control of employees.

Remates Otro Mundo in his security system, to notify with text messages when they open and closet he business,

GoSnack Development of chocolate dispenser,

Betacafe S.A.S Maintenance of machinery in the electrical and electronic part.

Automatic hydroponics development for home growing.

Developing applications and automations for the industry, looking for a way to optimize each process where they require me. Transmitting the knowledge to the company that hires me. In 2019 I developed a small project with Redepesca using Python, QT interface and IDing all operators with RFID readers.

## **LANGUAGES**

English: B1.

Spanish: Nativo

## **ADDITIONAL TRAINING AND HOBBIES**

Various diplomas and technical seminars

1. Diploma: Social leader in the corporation EI OASIS.
2. 10 months of English study in Birmingham England at university LSFB.
3. CSWA International certificate in SolidWorks Designs (CSWA ID C-B3YGN226Y7)
4. Mobile application development course in EAFIT
5. Winner of the Tic Tac marketing contest at EAFIT University.
6. Congress of Mechanical Engineering in cyber physical systems in engineering in the second semester.
7. Participant in the Roborave International contest representing EAFIT University
8. Congress 40 years of Production Engineering from August 29 to 30

### **Other Knowledge**

1. Formation of leaders with the mayor of Envigado
2. Co-founder youth committee of Villa Santa Teresa
3. Student in Theater in the Pequeño teatro

Date 2020- Date 2021  
Medellín-Colombia

Date 2013-2020  
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4. Co-founder youth committee of Villa Santa Teresa in zona dos Envigado
5. Development of the Liz robotic lizard at EAFIT University for the mechatronics line of specialization.
6. Master's Course in Python on Udemy
7. Course Electrical, Electronics and PCB Design safety & compliance on Udemy
8. Course Python for Computer Vision with OpenCV and Deep Learning on Udemy
9. Course The complete Machine Learning with Python on Udemy
10. Course Norma Retie at Politécnico de Suramérica
11. Course Docker on Udemy
12. Course Robotic with ROS on Udemy
13. Course Programming with Cloud IoT Platforms on Coursera
14. Course Technical Assistance Basics on Coursera
15. Course AWS Fundamentals: Going Cloud-Native on Coursera
16. Course Google IT Automation with Python Professional on Coursera
17. Course Master's CSS: Responsive, SASS, Flexbox, Grid y Bootstrap 4 on Udemy
18. Course Master's JavaScript: JS, jQuery, Angular 9, NodeJS on Udemy
19. Curso Máster en JavaScript: JS, jQuery, Angular 9, NodeJS en Udemy
20. Course AI Capstone Project with Deep Learning en Coursera de IBM.
21. Course Computer vision and image processing essentials en Coursera de IBM.
22. Course Deep learning essentials with keras en Coursera de IBM.
23. Course Deep learning with Tensorflow en Coursera de IBM.
24. Course Deep neural networks with Pytorch en Coursera de IBM.
25. Course Machine Learning with Python en Coursera de IBM.
26. Course IBM AI Engineering Professional Certificate V2 en Coursera de IBM.
27. Course Learning Adventures Introduction por Twilio.
28. Course Twilio Platform en Español.
29. Course Twilio Platform Advanced.
30. Course Flex Developer por Twilio
31. Course Flex Advanced por Twilio.
32. Course Solution Architecture 101 Twilio
33. Course Solution Architecture 201: Flex Twilio

### **Personal Interests**

Regarding technology, electronics and electricity, design, video editing, video games, listening to music and stories, creating development challenges, among other activities.

**Sports Hobbies:** Soccer.