

# Leonardo Samuel Abundis Mosqueda

Automation and Mechatronic Engineer

## Personal Data

E-mail: leonardo.abundis.mos@gmail.com

Mobile: (+52) 5549449499

Nationality: Mexican

Date of birth: 13 November 1996

## Personal

Leadership, teamwork, efficiency,  
professional, flexible, patience, work ethic,  
punctual and respectful.

## Software Skills

### IT Skills

- Microsoft Office
- Python: Web frameworks and OpenCV
- C language
- Java
- HTML / JavaScript / CSS
- Cloud Computing: AWS
- SQL

### Engineering Software

- LabView
- MATLAB / Simulink
- Automation Studio

### Engineer design Software

- SolidWorks
- CATIA V5
- Eagle

## Electronic skills

Microcontrollers, Raspberry Pi,  
communication protocols, sensors,  
actuators, power electronics and general  
electrical knowledge.

## Mechanical Skills

3D printing, laser cut, router CNC, lathe,  
milling machine, welding, metal machines  
and wood saws

## Professional experience

### -Tata Consultancy Services , Mexico

02/2021-today

Junior software developer

- AWS: EC2, DynamoDB, S3, Lambda and Alexa
- Java and SQL
- HTML / JavaScript / CSS
- Agile and scrum methodology

### -Ford Motor Company, Mexico

02/2020 – 02/2021

Product Development: Trainee design engineer

- Surface design: Sheet metal products
- Product life cycle follow up and product assembly evaluations
- Communication and relationship with suppliers
- CATIA V5 / Team Center / TcVis / BOM structures

### -Baker Hughes a GE Company, Germany

03/2019 – 07/2019

Internship and bachelor thesis at Firmware department

- C language programming (Atmel microcontrollers)
- Electronic design and I<sup>2</sup>C Communication protocol (Sensor communication)
- Web servers and Web sockets implementation
- HTML, CSS and JavaScript development and integration
- **Thesis:** Wireless (Wi-Fi) communication for the functional 3D demonstration model of the downhole tool "steering unit"

### -Mechatronic project for APAC

01/2018 – 08/2018

Develop a mechatronic device for children with cerebral palsy. (Project Portfolio)

## Education

### -B. Eng. Automation and Mechatronics (Double degree)

09/2018 – 11/2019

Hochschule Zittau/Görlitz

Zittau, Germany

### - B. Eng. Mechatronics (Double degree)

08/2015 – 06/2020

Instituto Tecnológico de Estudios Superiores de Monterrey

Mexico City, Mexico

## Language

Spanish: Native Language

English: Fluid (C1)

French: 5 years of study (B1)

German: 2 years of study (B1)

## Awards and certifications

- Scrum Fundamentals Certified (SFC)

## Project portfolio:

[Click here](#)