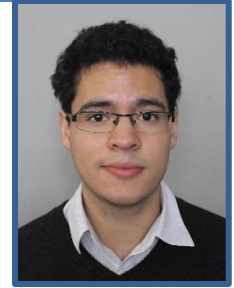


# Mechatronics Engineer



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## Experience

- 01.2019-Present **Project Developer in *Briko Robotics* | San Luis Potosí, MX**
- In charge of developing and creating a robot for an international competition.
  - 3D designed the robot using Solid works as the computer modeling tool.
  - Manufactured (CNC, 3D printing, laser/water cut) and built the robot.
  - Programmed FPGA using Java and Python for the robot's vision.
- 02.2018 – 08.2018 **Software Developer in *Bosch Germany* | Internship Abstatt, DE**
- Node.js Developer
  - Scripting
  - Azure Portal support
  - Integration of different API's and Technologies (Gitlab, LDAP, Azure SDK)
- 05.2017– 07.2017 **Front-End Developer in *Briko Robotics* | Internship San Luis Potosí, MX**
- Utilizing OpenCV to recognize objects in robot vision
  - Interactive HTML 5 games
- 08.2014 - 06.2016 **Head Mentor in the Electrical Area of Robotics Team *Lambot 3478* | S.L.P, MX**  
Participation in: *For Inspiration and Recognition of Science and Technology (FIRST)* competition.
- Hired by *Lambot's* sponsor *General Motors* to renovate and revamp the electrical and programming areas of the team.
  - Utilized Java and LabView for robot's programming.
  - Beta Tested the new "*RoboRIO*" FPGA for National Instruments
- 09.2012 - 05.2014 **Head Programmer and Member of Team *LamBot 3478* | S.L.P, MX**
- Managed, programmed and laid out the electronical components of the system.
  - Won 2 Engineering Inspirations Award in the FRC World championship at St. Lois Missouri (2013,2015)
  - Innovation in Control Award sponsored by *Rockwell Automation* at Mexico City Regional (2014)

## Languages

Spanish Native Language  
  
English Advanced (TOEFL, Score: 597)  
  
German Intermediate (A2-Level)

## Software Skills

Advance Knowledge Node.JS, Javascript, Git , Gitlab, Continuous Integration , Microsoft Office, Solidworks, REST, Api, SQL, MongoDB, PLC Programming  
  
Intermediate Knowledge Java, Python, Bash Scripting, Arduino, Tia Portal, Docker, Unit Testing, Scrum ,React, Linux CLI

## Certificates/Awards

- Certified Solid Works Associate (CSWA)
- Intercultural Management Communication Seminar
- SAP Student Recognition Award
- National Youth Prize 2012 in Science and Technology

## Education

- 08.2014 – 12.2018 **Instituto Tecnológico y de Estudios Superiores de Monterrey | Mechatronics Engineering**  
San Luis Potosí, México
- 09.2017-02.2018 **Hochschule Karlsruhe - Technik und Wirtschaft | Study Abroad program**
- 05.2016- 06.2016 **University of Seoul | Summer school program**
- 08.2012-05.2014 **International Baccalaureate Diploma | Emitted in Geneva, Switzerland**