

# Isaac Ayala Lozano



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## Education

Instituto Tecnológico y de Estudios Superiores de Monterrey Campus Toluca  
Undergraduate student of Mechatronics Engineering

## Experience

### Wolfram Research

#### **Wolfram Student Ambassador**

June 2017 - Present

- Responsible for the promotion and utilization of the Wolfram Technology stack in my university
- Software instructor experienced in Mathematica and SystemModeler, covering advanced topics such as Machine Learning and Partial Differential Equations
- Organizer of the *Mathematica Day at ITESM* event in collaboration with faculty staff

### General Motors

#### **Internship as Subsystem Validation Engineer for the Electrical Department**

August 2016 – December 2016

- Responsible for the implementation of engineering company standards and SAE USCAR specifications in the validation schemes of electrical subsystems
- Development of a standardized workflow system to improve the results the team presented at the end of each month
- Design of new test fixtures for internal use to train new members of the team and improve the knowledgebase of the team
- Collaboration with five engineers assigned to the recently created Electrical Validation Department to supervise the progress of validation tests done by suppliers

## Partners for the Advancement of Collaborative Engineering Education - RSMS Competition

### **Global team leader for team #8 REVO**

January 2016 – August 2016

- Position equivalent to a Project Engineering Manager in industry
- Responsible for the completion of the project
- Supervisor of the progress of all universities involved in the project:
  - College for Creative Studies
  - Universidad de Puerto Rico
  - Universidad Iberoamericana
  - Tecnológico de Monterrey Campus Toluca
  - Centro Universitário FEI
  - Instituto Mauá de Tecnologia

### **Team leader for Instituto Tecnológico y de Estudios Superiores de Monterrey Campus Toluca**

August 2015 – January 2016

- Responsible for the areas of Control and Systems Engineering, Powertrain, Prototype Manufacturing, Rear Suspension and Steering.

## FIRST FRC

### **Solidworks Mentor for high school robotics team FIRST FRC #3158 Tecbot**

August 2013 – May 2014

## **Certifications**

- Certified Professional - Mechanical Design (CSWP) for Solidworks
- Certified LabVIEW Associate Developer (March 2015 – March 2017)
- GO PLM Certification Exam for NX 10.0
- Certified Wolfram Technology Associate Mathematica Student Level

## **Software**

- Siemens NX
- Autodesk Inventor
- Star-CCM+
- LMS Imagine.Lab Amesim
- Tecnomatix Plant Simulation
- LabVIEW
- Siemens Teamcenter
- Mathematica
- Wolfram SystemModeler
- Matlab
- Simulink

## **Languages**

Spanish Native language  
English TOEFL ITP: 660

French DELF B2