

# Oscar Sandoval Penilla

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## PROFESSIONAL PROFILE

As an organized person and with high motivation, I can adapt to any circumstance and always give the best of me in any project. I strive to work as a team and promote values such as teamwork.

## SPECIALIZED SKILLS

Bilingual - Spanish/English

ROS, Robot Operating System

Android, HTML5 Development

Programming Python, PHP, C#, Kotlin, Java, JavaScript

SQL, Linux

Math Modeling

3D Modeling

## EXPERIENCE

University projects, UNAM

### PLC Programmer

June 2018 to December 2018

Programmable pneumatic cutter, using the IDEC Micro-1 PLC and an 8 Bar pneumatic installation.

### Service Robot

June 2018 to December 2018

Programmed a robot using ROS capable of locating itself and planning routes that void obstacles using a rotary laser.

### Augmented Reality and GPS Location

June 2018 to December 2018

Android app using ARCore and Android Studio. Capable of obtaining the location of the user and render different 3D models depending on the location when the user focuses a marker.

### Distance Keeper Car with PID control

February 2018 to June 2018

Developed a car with PID control that maintains the distance to a mobile object using an ultrasonic sensor and a serial connection to a computer, programmed with C#.

### Assembly and Program a 5 axes robotic arm

February 2018 to June 2018

Assembled all the mechanical and electronic components, calculated the direct and inverse kinematics, programmed in ROS using python.

### C# Robot

August 2017 to Dec 2017

Programmed a serial connection between an Arduino and C#. The robot can perform a round trip of four of the different locations.

Sanvan Construction LTD - Vancouver, BC

### Web Designer/Developer

June 2017 to December 2018

Frontend and backend HTML5 development of a web application that managed timesheets and payrolls.

## EDUCATION

2014 – 2018

National Autonomous University of Mexico - UNAM  
Mechatronic Engineer (4.0 GPA)