OSCAR SANDOVAL PENILLA

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https://oscarsanpenilla.github.io/portfolio/

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	Web Development
ROS, Robot Operating System	Linux
C++, C#, Python, Bash scripting	Version Control with Git
Android Development	3D Modeling

EXPERIENCE

SERVICE ROBOT

University projects, UNAM - June 2018 to December 2018
Robot capable of locating itself and planning routes that void obstacles using a rotary laser and ROS.

AUGMENTED REALITY AND GPS LOCATION

University projects, UNAM - 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

University projects, UNAM - February 2018 to June 2018
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

University projects, UNAM - February 2018 to June 2018
Assemble of all the mechanical and electronic components; I calculated the direct and inverse kinematics, it was programmed with ROS using python.

FULLSTACK WEB DEVELOPER

Sanvan Construction LTD - June 2017 to December 2018
Frontend and backend HTML5 of a web application that managed timesheets and payrolls.

ROBORIC SOFTWARE ENGINEER

Advanced Intelligent Systems - November 2019 to March 2020
Development, implementation, migration, operation and the continuous improvement of robot code using C++ and ROS.

EDUCATION

2014 – 2018   Nacional Autonomous University of Mexico, UNAM
Mechatronic Engineer (4.0GPA)