

Robotics course - Group Project

University of Genoa



Installation procedure

Unity, ZED Mini Camera and Barracuda

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1 Installation procedure on Windows

1.1 ZED SDK and CUDA

Download the SDK from [ZED SDK version 3.4 with cuda 11.0](#) (it installs CUDA too) and follow instructions at [Installation link](#).

1.2 Unity

Install Unity Hub from [Unity Hub](#), from the Hub activate the licence (If you don't have one) and install a Unity version > 2017 but < 2020 in the installation section. Note: by installing versions newer than the 2020 ones some errors about VR with ZED appear.

1.3 ZED plugin for unity

Download ZED Unity plugin from [ZED Unity Plugin](#). Before installation check requirements:

- Possible OS: Windows 7-10, Ubuntu 16, Ubuntu 18
- CUDA: check version. On START: look for NVidia control panel → Help → System Information and click on the components tab.
- DirectX 11: Already installed on Windows but check version. On START: look for dxdiag, click on it. In the DirectX Diagnostic Tool, select the System tab, then check the DirectX version number under System Information. The first time you use the DirectX Diagnostic Tool, you might be asked whether you want to check if your drivers are digitally signed. We recommend that you select Yes to help ensure that your drivers have been signed by a publisher that has verified their authenticity. We have DirectX 12.
- OpenGL: Already installed on Windows but check version. Download the [OpenGLViewer APP](#) (We have version 4.6), which is a free application designed by Realtech VR. The viewer displays the current version of OpenGL installed, and provides tools to test or update the graphics card driver.

Once you have ZED plugin in your laptop, import it in Unity Editor (in Unity top menu: Assets → Import package → Custom package.. → select the ZED plugin you downloaded before).

1.4 Barracuda package on Unity

In the Unity Editor, open the Package Manager window (in Unity top menu: Window → Package Manager), select Barracuda and install it.