

Data 10/06/19

Spett.le ISISS "Scarpa" Via 1° Maggio 3 31045, Motta di livenza

## "Virtual and Augmented Reality" training days report

Description (technologies used-showed off pointed with a *)	Time of the day(s)
General introduction to the latest Virtual Technologies	1 <sup>st</sup> day
General presentation.	8:15 – 9:45
Split of the audience in 8 groups, to each group has been given an Android Tablet.	
Main differences between "Virtual Reality" and "Augmented Reality" and show off of some explicative video samples.	
Short tutorial on Augmented reality contents creation	
Introduction to the various types of "Augmented Reality" and an easy tip for custom content creation, through the use of *tools freely available on the Web.	9:45 – 12:00
Each group had the needed assistance in order to implement a custom content on the *App, and to make several test and try on his own, so to improve the understanding of the processes that generally happens in the background of the Augmented Reality Technologies.	
*HP Reveal ( https://www.hpreveal.com/)	
*Android Tablet	
Introduction to Virtual Reality Technologies	12:00 – 13:00
In order to help the students in a better understanding of the subjects coming in the next hours, the main requirements and differences between the *various exisisting Virtual Reality Headset and Contents have been shortly explained.	
*Head Mounted Display "Cardboard like", VR Capable Smartphone	

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Custom 360 VR video content creation	
After the introduction to the various types of Virtual Reality Software(s) (native 3d real time-rendered and post-producted 360 video), the groups have had the chanche to better understand how to use a *360 VR camera.	14:20 – 16:20
Once the tech demo with the 360 camera has been over, the subject of the class moved towards the necessary *workflow and Software(s) to be able to self-produce a 360 VR custom video at home and upload it on a youtube channel.	
*360 Camera Ricoh Theta + Desktop Software + Mobile App ( <a href="https://theta360.com/en/">https://theta360.com/en/</a> )	
*Adobe After Effects 2018 ( <a href="https://www.adobe.com/products/aftereffects.html?">https://www.adobe.com/products/aftereffects.html?</a> <a href="promoid=KFMVM&amp;s_cid=70114000002CfGJAA0&amp;s_iid=70114000002ChdJAAS">promoid=KFMVM&amp;s_cid=70114000002CfGJAA0&amp;s_iid=70114000002ChdJAAS</a> )	
*Youtube 360 Metadata Injector ( <a href="https://github.com/google/spatial-media/releases/latest">https://github.com/google/spatial-media/releases/latest</a> )	
*Generic VR Mobile Headset ( sample : <a href="https://www.trust.com/en/virtual-reality">https://www.trust.com/en/virtual-reality</a> )	
Introduction to Desktop-connected tracked VR HMD	16:20 – 17:20
The students have been introduced to the various "High End" Virtual Reality technologies available today, minimum requirements and main difficulties while using them.	
*Oculus Rift HMD, IR Cameras, Touch Controllers, ( <a href="https://www.oculus.com/rift-s/">https://www.oculus.com/rift-s/</a> )	
* High End Laptop "Asus Rog" ( <a href="https://www.asus.com/Laptops/Gaming-Series-Products/?">https://www.asus.com/Laptops/Gaming-Series-Products/?</a> _ga=2.230687318.816429548.1560619294-2001784289.1560619294 )	
High End tracked Virtual Reality experience	2 <sup>nd</sup> day
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