ICAT Day 360-Degree Video of North Cross Camp

Virginia Tech CS4624: Multimedia, Hypertext, and Information Access

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ICAT's History

Transdisciplinary Education

 Summer Maker Camps (2012-2016)

ICAT Day (2012-2016)



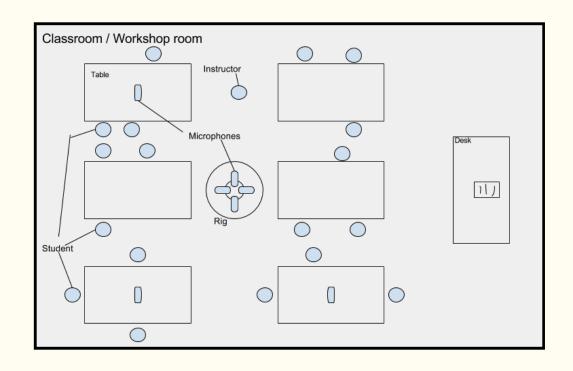
Ivica Ico Bukvic speaking about sound technology in 2013

https://www.icat.vt.edu/sites/default/files/u46/Maker_5.jpg

Document the North Cross School Camp

- Film 360 degree video of the camp
 - Record and integrate spatial audio

Present students' perspective



During the North Cross School Camp

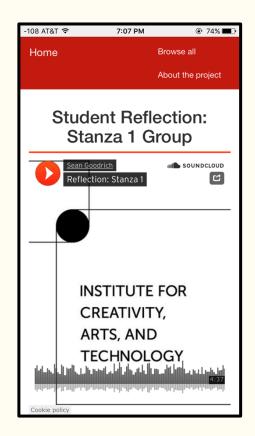
- Indoors in the multipurpose room
- Syncing video and audio
- Outdoors in the courtyard
 - Children and chaos



After the North Cross School Camp

- Selected and stitched footage
- Merged spatial audio with 360-degree video
- Selected student materials and developed accompanying website to display them





Project by the Numbers

- 3 early alarm clocks
- 3 major software applications
- 3 dimensional Unity sphere
- 104 GB of GoPro footage
- 1.37 GB of audio



Final Exhibit

324 MB of video, 34 MB of audio, 3 iPads, 1 Oculus Rift

















Lessons Learned

- Open-endedness as a strength and a weakness
 - "Keep an open mind, but not so open that your brain falls out." Claudio D'Amato, VT ASPECT Program
- Challenges with 360-degree video
 - Spatial audio
 - Stitching/software
 - The future of VR
- Future Virginia Tech 360 video efforts
 - TLOS (Technology-enhanced Learning and Online Services)

Demos

https://www.youtube.com/watch?v=ICNTcloVztg



Molly Graham watches the 360 video on ICAT Day

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North Cross School

Kolor, Amazon, Bootstrap, Adobe, Oculus, Unity, Soundcloud, Flask - usage of their logo