Project Abstract

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Title: digitEyes

Description: We plan on using the Nexys 4 DDR to make a responsive stereoscope. We will do this with an IMU, two small color OLED screens and the biconvex lenses commonly found in Google Cardboard headsets. We plan to make an autogenerated environment (possibly some boxes, "trees", etc) that change as the user tilts their head, giving the impression of being immersed in a virtual world. Ideally, the stretch goal for this project would be to generate the environment from music like Windows Media Player or similar visualization tools.