

**Sandtastik Clean Dust-free Sand**  
**Carol Edson, Las Positas College**

The Sandtastik purchased with the generous CARE grant has worked brilliantly - it is dust free as advertised, and we have used 25 pounds for the testing/prototyping phase of our Augmented Reality Sandbox project while the set-up is still on a cart. Once the varnishing and final assembly of the actual sandbox is complete, we will be able to add 225 pounds of sand in addition to the original 25 and have a full scale AR sandbox with the correct aspect ratio of 4:3 and enough sand to allow the creation of high hills and low valleys.



This UCLA YouTube video shows an example of a finished, operational project similar to our plan: <https://www.youtube.com/watch?v=CE1B7tdGCw0>

The student team of Yosef Mirsky, Ashley McDaniel and Will Kossow, guided by Dr. Travis White, have persevered through a number of challenges to make the working Augmented Reality Sandbox happen, albeit still in the prototype form in a plastic tub, not in the wooden permanent sandbox. The prototype allowed them to test the projector, software, keyboard commands, and calibration using Linux. Now they are to the point of having an evolving instruction manual in English.

CARE has been just phenomenal in their enthusiasm for this project, but as I say, part of what the student team learned is that things don't always go according to plan. In one instance a piece of wood was mis-measured and a new 2x4 had to be purchased. In another case, a saw was used incorrectly and cut too deeply...again requiring a redo. SO...lots of experiential learning with great value for all these future engineers as they head off to their four year universities.

