Replicating Children's Hand Crafted Pottery by Additive Manufacturing Using the Sense

Rafat Saleh Madani Umm Al-Qura University, Makkah, Saudi Arabia

Abstract

The ability of a child to be creative in school is often impeded by the fact that an adult is always present and exerts a significant amount of influence over the child. This paper proposes an approach to design that will reduce adult influence and allow children to take more ownership of the design process. The benefits of this include that it will lead to the development of new designs that are not influenced by adults and will allow children to more enterprising with their designs. The methodology included the development and experimentation of the approach and a post-experiment focus group to reveal the children's experience.

The results revealed that the children clearly acknowledged the absence of a teacher and that this had a positive effect on their design, moreover, the children appreciated the fact that they were given the opportunity to design alone and have control over the design process. Overall the approach to design proposed in this study allowed children to be more enterprising in design.

Keywords

Children's design, 3D objects, 3D printing clay craft, Product design.