

A 3D printer Arc Reactor Design

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Abstract

The objective of this project is to create a design from auto cad which can represent the ingenuity, and creativity of the College of Applied Engineering Sustainability and Technology of Kent State University. The new College building opened in January of 2015 will pave the road for the coming students to graduate as engineers, and aeronautic. The design will have a tool and an arc reactor which is a theoretical device which could be used as a sustainable energy source. The tool and reactor can be used as a symbol for students, making a statement that they are the future of the university. With their knowledge and drive they can make the theoretical and questionable, possible.

The design will consist of a trophy stand comprised of several parts that represent a University evolving in order improve education for the students, so the students will create a better future for technology. The trophy will have a title stating KSU, with a center piece being the arc reactor, and a wrench behind it as a piece of the trophy which will be held in place. In total the amount of parts needed to create the project will be comprised of 10 – 15 parts including the reactor which itself will have 4 or 5 pieces for one part and the title stand will hold all the pieces in place. The pieces will all be designed in Auto Cad and created with the 3D printer.