In Environmental Design 1, also known as Furniture Design, students were required to design and build a functional chair by the end of the semester. At least two sustainable materials needed to be implemented into the chair design. I chose high-density tan cork for the body of the chair and cork fabric for the seat and back cushions.

I used a MAXIEM water-jet cutter to perfectly cut the four pieces (two legs, one seat, and one back) of my chair. I decided to use the MAXIEM water-jet cutter over any other CNC router because of the cork’s six and four inch thicknesses. Most common CNC routers would only be able to hold up to three inches of material, whereas the MAXIEM water-jet cutter could hold up to six inches of material.

I connected the legs, seat and back with wooden and steel dowels. The dowels provided support for the chair and allowed the chair to function as one piece, instead of four. All the dowels are hidden within the chair except for two small metal fish eyes that are located in the rear view of the chair.

The One-Of-A-Kind Cork Chair is a very elegant, environmental-friendly chair. The cork fabric, covering the seat and back, provide maximum comfort for the user as well as adding a unique pattern to the chair. The One-Of-A-Kind Cork Chair is a perfect chair to place in a gallery, a living room, a waiting room or anywhere the user desires, since it is very easy to assemble and disassemble.