

ABSTRACT

Vial of Life Redesign

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Cambria Anonymous Neighbors (CAN), a nonprofit organization assisting the residences of Cambria, hopes to standardize first responder procedures and make medical information easily accessible in case of a medical emergency. Currently the container costs \$3.78. CAN would like to provide 2000 containers at a lower cost. After researching materials, acrylic was found to be the best option for the container material due to its low cost and durability. A laser cutter was used to cut the acrylic pieces, and then a set of of step by step instructions were created to assemble the product. To reduce the cost of acrylic, the most expensive material in the process, it is recommended for CAN to order at least 51 units of 18" x 24" acrylic. Assuming the labor costs are free because CAN has volunteers, and the laser cutter is free for use, the new container costs \$2.17. This product provides a 43% cost reduction for each container CAN makes and provides for a more flexible options for the medical documents inside of the container.