

# 2003

## **CAD Animation, Architectural**

### Design Problem:

Grandma is coming. Fortunately, the second floor of your parents home is no longer utilized since you and your siblings are away at college. The space currently includes three bedrooms, a large hallway, a full bathroom and the entrance stairway. You will need to help design her new apartment.

Grandma needs one bedroom, one bathroom (existing), and a kitchen with a dining area. You recall that she likes carpeting and bright colors. Grandma also likes to be surrounded by artwork since Grandpa was an avid art collector. Grandma doesn't see as well as she used to so she would appreciate a large screen television. Be sure to include wall and floor coverings as well as furniture.

### Requirements:

Submit a floor plan along with the animation walk through. The walk through should show Grandma that you remembered the important things she likes as well as her special needs. Keep in mind that Grandma will need the walk through to be smooth and appropriately timed for a person her age.

**2003**

## **CAD Animation, Engineering**

### Design Problem:

A student at West Virginia University (WVU) has a problem getting to class on time. He lives on campus and wants a new transportation device that will allow him to quickly move around campus. Because he has a limited budget, he would like the device to be used for recreation as well as travel. Also, because he is concerned about the environment, his new mode of transportation needs to be manually powered.

### Requirements:

Your challenge is to design a scooter-like vehicle that incorporates the ability to be easily taken apart so that it can be used for a different recreational activity. For example the handlebars once detached, could be used as a pogo stick. In addition, the base of the product (the part on which the rider stands), must express school spirit with a design that includes school colors (blue and gold).

Your animation must show the different pieces of the design coming together to form the single scooter-like product.