From: Baron K

To: Professor Coleman

Re: Final Report for SL 1 of Unified Engineering

Date: June 2, 2023

Dear Professor,

I would like to report that the Mark II Balsa Glider (patent pending) does indeed fly. However, its performance is more akin to a stunt glider than a distance glider. It performs loop-de-loops very well, but pretty much ends up where it started from. The test happened outside in a sunny park with a slight breeze. After three attempts, it became apparent that the wings generated a great deal of lift. Coupled with the light material of the glider, forward thrust was quickly translated to lift. Fortunately, it remained sturdy.

To make the glider fly straighter, I think I should have made it more dart-like. Perhaps a sweeping triangle towards the rear. I think using the 1/16" material was all right, but the sweeping wings managed to scoop up a lot of air. This would be good if it was a bird taking off from the ground, but not so good for distance.

If I had to revise the directions, I would include a laser cutting tool program to create the glider. This would allow for more even cuts. I would also use a CAD program to draw the glider. My natural drawing ability Is not conducive for straight lines.

The quality of my fabricated glider was fine. The wood was in good condition. The glue job was a little sloppy, but overall, the glider was sturdy and performed well.

Thank you for your time and patience,

Baron K

The Mad Engineer