

## EMS Writes History with a New Pencil Design

The design of the mechanical pencil and eraser has not changed much since its invention but could certainly be improved. With more and more people using computers some of us forget there are still many users of mechanical pencils. This includes draftsmen, artists, engineers and more.

### The Problem

Writing with a mechanical pencil is easy. But when it comes time to erase something you must either turn over the pencil or use a separate eraser. This takes time and can be a distraction to getting work done quickly.

### The Solution

Angelo Governale has patented an ingenious way to use a mechanical pencil and eraser on the same side of the device. Currently his working prototype is pencil and eraser taped together. What he really needed was an ergonomic and attractive design so he could take his idea to investors. Investors could provide the capital to bring this great idea to market but he needed a better representation of his idea.

Angelo contacted EMS and their industrial designers got right to work. EMS started with some 2D sketches to get the look Angelo was looking for. Once approved, EMS started working on a 3D CAD model. Using a combination of SensAble Technologies and SolidWorks, EMS's designers and engineers came up with a sleek and very functional design. SensAble Technologies allowed the organic shape to be easily created while SolidWorks helped with the more mechanical features.

Once the design was finished, EMS created numerous concept models on their Z Corp Z650 3D Printer. The Z Corp 3D Printer allows full color 3D printing so the concept model looks like the finished product.

Using the Z Corp 3D printer ensured the look and feel were exactly what Angelo wanted. The Z Corp technology is so fast and affordable many iterations of the design were completed in a very short amount of time.

### Conclusion

The mechanical pencil world may not be the next computer gadget or cell phone concept but it's still important to many people. This new design will make writing and erasing easier than ever. Look for the SwiftEraser in a store near you very soon.

For more information visit [www.ems-usa.com](http://www.ems-usa.com)



Initial Prototype



Initial Sketch & Finished 3D CAD Model



Finished Z Corp Concept Model in full 3D Color