Desk-Ray Pro

Solid Works Personal Project

EDSGN 100

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What is Desk-Ray Pro?

Desk-Ray Pro is an elegant way to convert any desk into an interactive tool suite, running Windows or Android it can bring a variety of features to your desk without any clutter. The on board IR-Camera scans gestures and touch interactions made on the active surface. Bundled with a 720p HLP (Holographic Laser Projector) Desk-Light can entertain majestically.

Designing Desk-Ray Pro

I wanted Desk-Ray Pro to have an organic yet functional design, I achieved that by using several complex methods including Revolve Cuts, Complex Sketches and an original design.
Below you see a revolve cut in order to give the lamp a simplistic yet functional design accent.

My inspiration for this design was innate, I had been working on the electronics for about six months and thought that it would make a meaningful personal project. I believe that unnatural shapes are key to designing a product that stands out.

Here you see the trigonal accents on Desk-Lamp.
Designing Desk-Ray Pro

I picked Desk-Ray pro as I intend to pursue this project and bring it to market via crowd-funding tools like Kickstarter or IndiGoGo.

I used many features to build this model including:

- Revolve Boss: To create the base/neck
- Boss Extrude: To Create the Trigonal Arcs that house the projector and sensors

- Multiple Fillets: On most edges
- Cut Extrude: On the desk to represent the active area
• Revolved Cut: To slice the lamp base

• Hole Wizard: To create matting surface for the Trigonal Arcs and the Base
• Body Move/Copy: To Copy, duplicate and assemble the two trigonal arcs
• Adding Images to Sketch via (Add Features to Sketch)

Some of the most challenging aspects of this project was designing it from scratch. As soon as I was done brainstorming a design the complexity of it brought new challenges. Using different kinds of cuts proved to be challenging. The solid works portion of class equipped me with the basic ability to design models and the much needed familiarity to explore further and learn new features.