Solidworks 1. (March 30th) and Solidworks 2. (April 6th)

Solidworks is a piece of "Solid Modeling" software used by engineers to design everything from factory automation systems to household electronics. This software, and others like it, allow designers to create 3d models on a computer that can be assembled and tested, before ever manufacturing a prototype. We'll go through some of the basics of solid modeling and then give the students the tools to create a unique part using Solidworks. We'll then take their parts and use a laser cutter to create them from plastic. This opportunity shows multiple stages of the engineering process of manufacturing: from conception, to design, and finally to fabrication.