

Small Scale Plant Model Challenges Spring 2015

Location: Computer facility

Skills: 3D printing, AutoCAD, MathCAD

Fall 2014

The Fall 2014 team explored the idea of automating the entire process of creating a small scale plant model. The team's goal was to use AutoCAD, a program familiar to AguaClara, in order to model and print the entire AguaClara plant design.

Goals

The Spring 2015 team plans on building a small scale plant model that is technical yet easy to understand. This model will be a portable laptop size model that is also durable enough to withstand air travel. The team will also work on optimizing the design process of 3D printing by using AutoCAD and Mathcad. Not only is AguaClara already familiar with both AutoCAD and MathCAD, but manually formatting the Rhinoceros 5 drawing file proved to be tedious and time consuming. This transition will involve updating the MathCAD to AutoCAD (MtA) code to include the extra formatting that is necessary for 3D printing.