

# Project – Support Base Model

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## OVERVIEW

### Goal;

Produce a model of a pipe support base component and 3D print in Nolop.

### Requirements;

- Follow specifications of technical drawing provided.
- Designed as a single component within SolidWorks.

## SUMMARY

### Process;

- Using the technical drawing shown below devise an approach to begin the modelling process. In this case sketch out a rectangle, extrude and then proceed to cut away and add using a combination of the sketch tools and features. The technical drawing used is shown below in figure 1 and the resulting 3D model in figure 2.

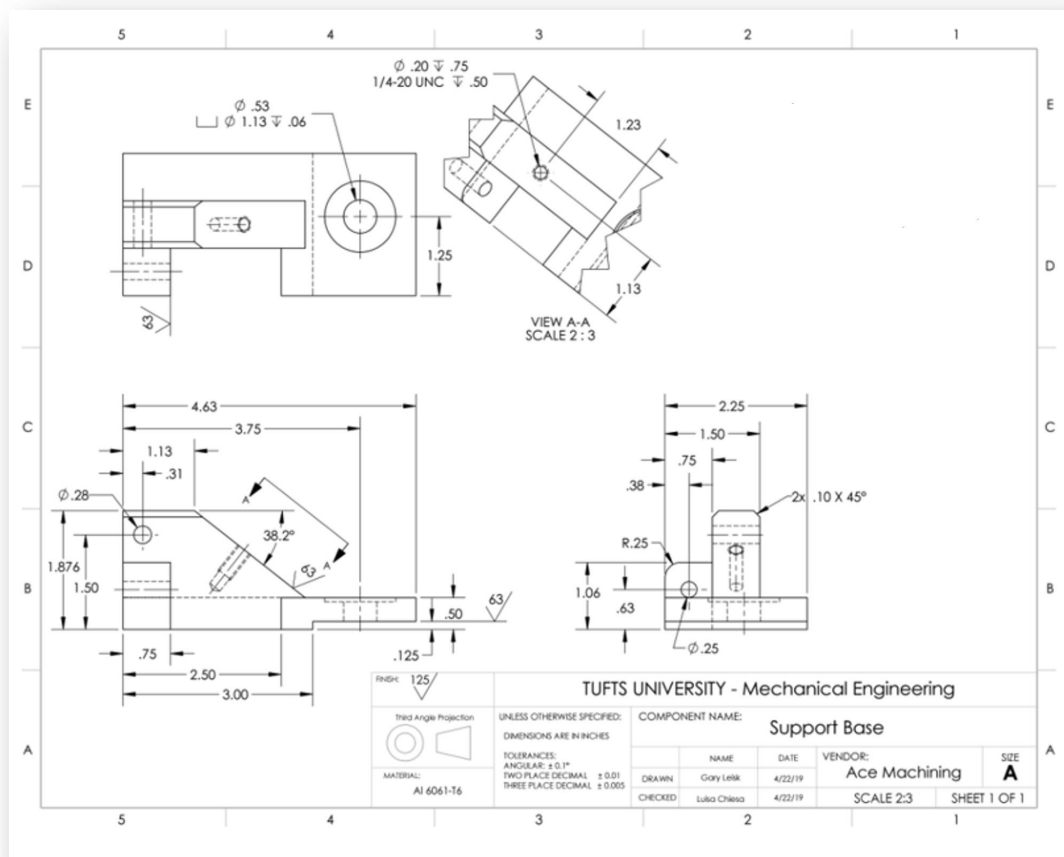


Figure 1

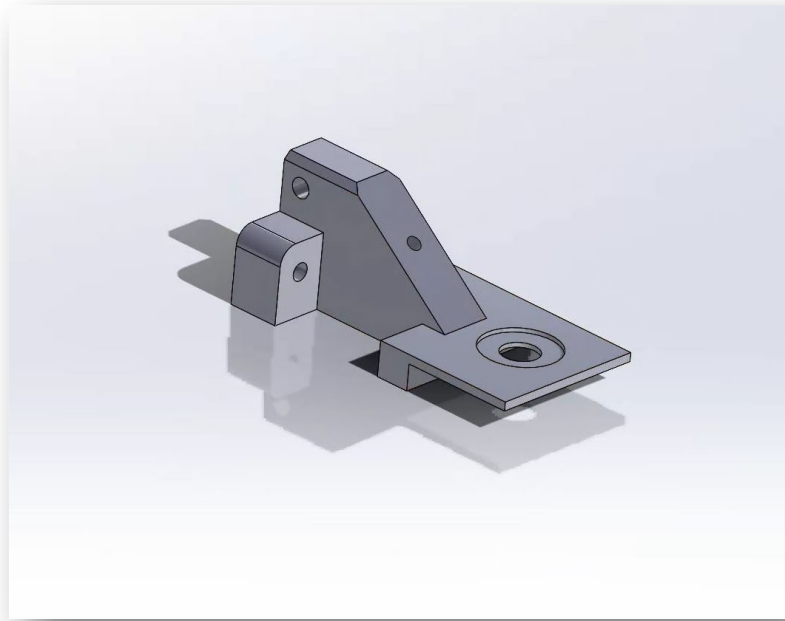


Figure 2

- To 3D print the resulting model using the printers available at Nolop login to the printing control panel and slice the model. This produces a file containing control coordinates for the 3D printers, send this over to one of the 8 available printers and await the result!

## OUTCOME

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### **Result;**

Successfully modelled the pipe support base in SolidWorks, and 3D printed it in Nolop.

### **Skills Developed;**

Learned how to use a range of SolidWorks sketch tools as well as some of the feature tools. Also built more effective techniques of pulling information from engineering drawings to make use of when designing to such a specification. Learned how to use the Nolop 3D printing facilities.