LEHIGH UNIVERSITY

IPD INTEGRATED PRODUCT DEVELOPMENT

WEEKLY SPONSOR COMMUNICATION

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DATES COVERED IN THIS COMMUNICATION:	SEPTEMBER 12, 2016 TO SEPTEMBER 18, 2016
WEEK NUMBER:	3 OF 15

Overview

This week we completed a first draft of a 3D model of the distractor on SolidWorks. We also had a phone conference with Chris Good during which he answered some questions we had about the marketing and the financials of the distractor. We are now ready to focus our efforts on fabricating an initial prototype.

Accomplishments

1. I researched appropriate good maximum and minimum separation distances for the handles of the distractor. I determined that the handles should range from 2cm to 5cm apart so the distraction process is comfortable for any surgeon regardless of his/her hand size.
2. Christian combined the information I found with the dimensions discussed in last week's brief and created a 3D model in SoildWorks (Exhibit 1). This model will be used for load analysis, as well as 3D printing a prototype for our midterm presentation. We plan on 3D printing the prototype as soon as possible so we can receive your suggestions and make appropriate adjustments to the design.

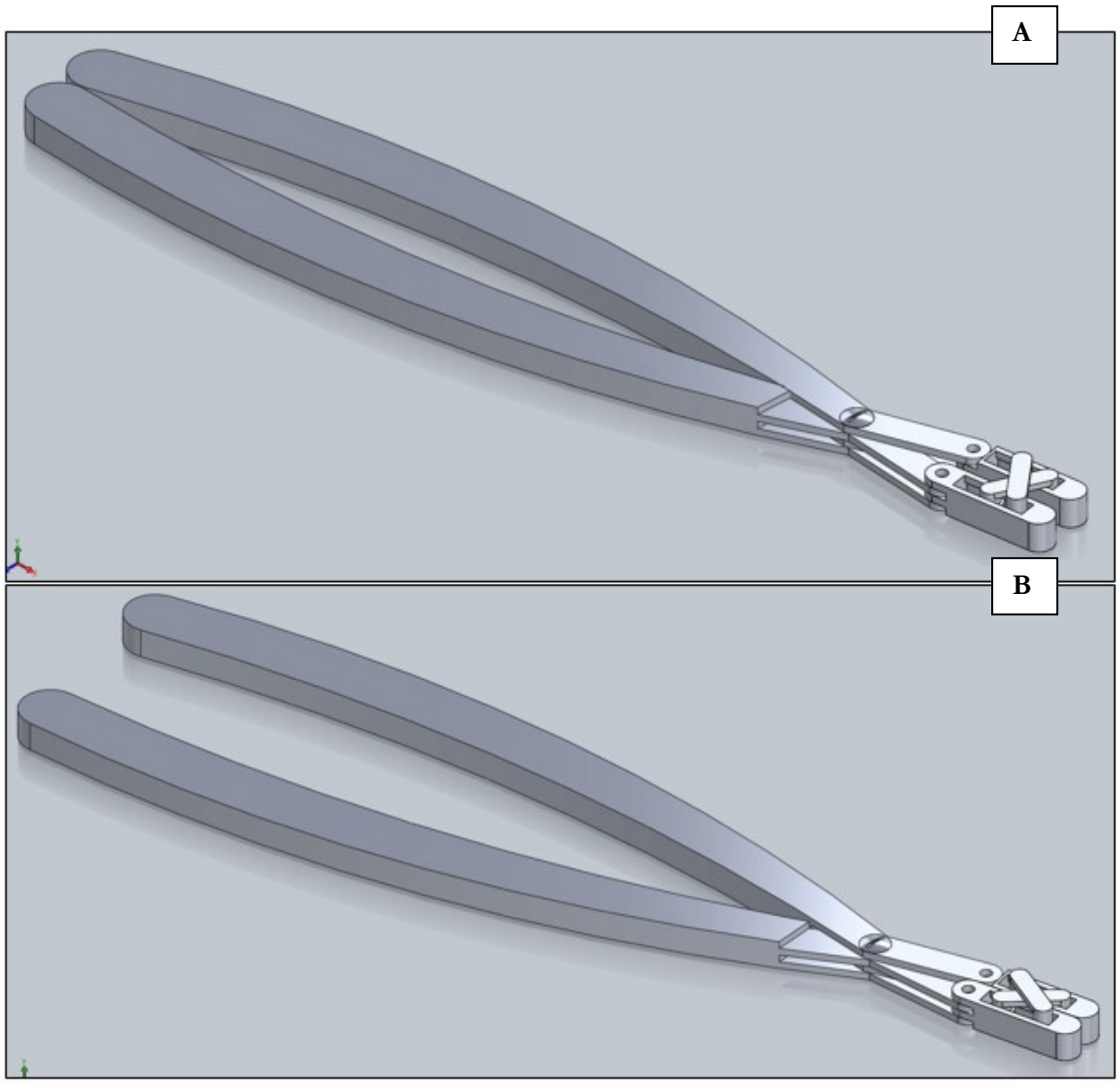

Exhibit 1 SolidWorks Model of Distractor. (A) Paddles fully open (B) Paddles fully closed

Next Steps

1. We will use Christian's SolidWorks model to 3D print a prototype.
2. We will also use SolidWorks simulation to test the stress in the model when 2000N is applied to the paddles.
3. We will be adjusting the financial model to reflect the information we gathered from our conversation with Chris Good.