Weekly Update

Date: 10/21/2013

Project Name: Transradial Prosthetic Arm

Group Number: 15

Group Members: Kendall Gretsch, Henry Lather, Kranti Peddada

**Current status of project:**We decided to divide our design alternatives into three categories: manufacturing type, attachment mechanism, and operation of device. In terms of manufacturing, we have researched several different additive manufacturing techniques and have an approximate idea of their costs. For the attachment system some of our ideas included a negative pressure suction and a locking mechanism involving a metal attachment secured on the residual limb that is fastened into the device. We also realized the need for a silicone or soft lining to be placed between the patient's residual limb and the device to prevent the skin from rubbing against the plastic device. Finally, we started designing a device that is voice-operated.

**Work planned for next week:** We plan to flesh out our ideas and start writing sections of the paper. We will start by writing individually, and then later in the week we will compile our individual sections. We will also need to make our power point presentation once we have most of the paper content finalized.

**Anything needed from client or TA or instructor to continue work:** We are planning on meeting our mentors this Saturday to get feedback on our ideas.