

Implant-retained Finger Prosthesis

Week 9 – November 2 to November 8, 2007

Team Members: Dustin Gardner – *Team Leader*
 Karen Chen – *Communicator*
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Problem Statement

The focus of this project is to design a substructure and connecting mechanism for an implant-retained finger prosthetic. Currently, the only method used in the United States is a slip-cover which holds the prosthetic onto the remaining portion of an amputated finger. New approaches have been used in other countries which involve implanting an object through the distal end of a partial digit bone. The object is such that a prosthetic finger with a solid substructure can be attached in order to achieve increased motility and use of the prosthetic finger without having any parts fall off. Our team is to design a prosthetic finger substructure and connection apparatus which will successfully match these characteristics.

Restatement of Team Goals

The team has chosen a design and must now consult the client in order to ensure fulfillment of design and client requirements. The team will start planning construction of the prototype and decide what materials and what size (scale) the prototype will be. Team members will individually contribute brainstormed ideas to the construction of the final design.

Individual Goals

Dustin	Brainstorming, designing prototype, sending out progress report.
Karen	Brainstorming, designing prototype, designing computer simulation.

