

## Engineering Safety Proposal

### Researchers Qualifications:

- So far, the project has been split up evenly among the group members.

#### *Completed Parts:*

**Christopher Hsing** – Chris completed the data analysis section. He was also the main sketcher for the preliminary designs.

**Benjamin Shih** – Ben was in charge of completing the patent search and design differences from previous devices. Also, Ben was in charge of writing parts of the initial proposal and description.

**Louis Teng** – Louis wrote other parts of the description. He was the main editor of the writing portions of everything completed so far.

**Nick Vujcic** – Nick was in charge of designing the survey and making graphs of the results.

- In constructing and testing the "Nail-It" prototype, each member of the group will have a specific role so that the project will be completed efficiently and in the time allotted.

#### *Construction/Design:*

**Christopher Hsing** – Christopher is the chief architectural designer. This role includes sketching the design of our device, and supervising the construction and testing of our device.

**Benjamin Shih** – Ben's role will be to secure all of the sliding and rotating features to the device for mobility purposes. This includes attaching the sliding feature to the two parts of the prototype, along with attaching the rotating mallet that will replace the hammer.

**Louis Teng** – Louis's task will be to construct the mallet part of the prototype. This role involves trimming the mallet so that it can swing properly without interference. Also, Louis will be in charge of attaching the metal end to the mallet so that it can swing with enough force to push in the nail but without bending it.

**Nick Vujcic** – Nick will be in charge of the construction of the wood framing and correct hole sizes in the device. Other than that, he will be in charge of cutting the wood so that it can be locked and hinged by Chris.

Timeline:

<b>Step</b>	<b>Date</b>
Start brainstorming ideas	9/3/07
Make final decision on device	9/8/07
Design survey	9/11/07
Gather/Analyze Data	9/15/07
Decide on final design	9/20/07
Start Construction/ Inventor Sketch	9/24/07
Gather all parts for construction	9/28/07
Complete mallet construction	10/2/07
Complete frame work, inventor	10/4/07
Complete combination of parts	10/8/07
Start testing	10/10/07
Finish testing, start analysis	10/16/07