

## Project: A Child Passenger Safety Seat (Child Seat)

### Team Members:

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### Client:

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**Date of Progress Report:** 11/3/05

### Problem Statement:

The goal of our project is to develop or improve the current method of transporting a child or infant in an ambulance on a stretcher. The method or device developed must be better than the current methods. A new method or device must be collapsible, and compatible with current ambulatory stretchers. Most importantly, the final device must meet all federal safety child seat guidelines.

### Restatement of Team Goals from Last Week:

This week we are actually going to start constructing the prototype and ordering additional materials.

### Summary of Accomplishments This Week:

This week we made the overall frame of our child safety seat. We also cut legs out for the stand that the base will be placed on. We were also able to pick up materials from our client that will allow us to continue construction.

**Individual Goals for this week:**

1. Ross: Continue making frame and start work on sliding leg rest.
2. Aman: Assist Miguel and Karim on their parts
3. Erik: Start construction of sliding back rest
4. Karim: Start construction of locking mechanism
5. Miguel: Start construction of sliding shoulder strap

**Statement of Team Goals for this week:**

The goals for this week will be putting the prototype together.

**Tentative Project Schedule:**

- 09/02/05: Formed teams and assigned roles
- 09/08/05: Met our client
- 09/16/05: Develop PDS; Brainstorm possible designs
- 09/23/05: Start writing mid-semester reports
- 10/01/05: Evaluate Ideas and work on power point; Peer review mid-semester reports
- 10/08/05: Mid-Semester Presentation; Design notebooks, PDS, mid-semester reports due
- 10/15/05: Choose a final design
- 10/15/05 – 11/26/05: Work on the final design; Testing; Modifications
- 11/26/05: Work on the final power point, paper and PDS
- 12/15/05: Poster Presentation; Final paper, PDS, evaluations and design notebooks due

**Difficulties:** We are still having trouble deciding on how to construct the shoulder straps.

**Activities/Accomplishments:**

Names	Activities	Time (hrs)	Running Total (hrs)
Ross	Meeting, progress report, construction	3	33
Aman	Meeting, contacts, material pick up	4	30
Erik	Meeting, construction help	3	21
Karim	Meeting, construction help	2	19
Miguel	Meeting, material pick up	3	23
<b>Total</b>		15	126

**Weekly Goals for Fall 2005:**

- 📅 Week 1 (9/2/05-9/4/05)
  - Form Teams, Assign Roles, Make an appointment with client
- 📅 Week 2 (9/5/05-9/11/05)

- Meet Client, Do background research, Set up team website, Begin working on PDS,
- ✚ Week 3 (9/12/05-9/18/05)
  - Finish rough draft of PDS, Meet client for demonstrations, Discuss PDS with advisor, Finish up any remaining research, Email researchers Levine and Bull
- ✚ Week 4 (9/19/05-9/25/05)
  - Discuss PDS with client, Begin brainstorming design ideas, Collect estimates for designs brainstormed (i.e. cost, dimensions, safety tests to be used, pros and cons)
- ✚ Week 5 (9/26/05-10/2/05)
  - Finish brainstorming, Finalize a Design as a group, Show designs to Client, Get consent from client and decide on one Design, Order pertinent supplies (i.e. materials), Research materials and companies if needed, Look for various prototype tests and facilities
- ✚ Week 6 (10/3/05-10/9/05)
  - Begin constructing prototype, Prepare for Mid-semester presentations and begin writing the Mid-semester reports
- ✚ Week 7 (10/10/05-10/16/05)
  - Mid-semester Presentation, Invite Client, Keep building prototype
- ✚ Week 8 (10/17/05-10/24/05)
  - Work on the prototype
- ✚ Week 9 (10/25/05-10/30/05)
  - Finish the prototype, Test prototype, gather data, make observations
- ✚ Week 10 (10/31/05-11/6/05)
  - Modify prototype based on testing
- ✚ Week 11 (11/7/05-11/13/05)
  - Finish Building the prototype
- ✚ Week 12 (11/14/05-11/20/05)
  - Collect data and retest the prototype
- ✚ Week 13 (11/21/05-11/27/05)
  - Make last minute adjustments to the prototype, Begin preparing for poster presentation and Final Paper
- ✚ Week 14 (11/28/05-12/4/05)
  - Final Presentation, Invite Client for poster session
- ✚ Week 15 (12/5/05-12/10/05)
  - Turn in notebooks, final report and evaluation form, Give the Prototype to client, Meet Client