**MECH 328 Weekly Progress Report *Dates: September 8 - 15***

Group: 10 Project Title: TrailRider 5.0

**Last Week’s Goals**:

1. To discuss team goals, expectations, strengths and weakness and to distribute tasks accordingly.
2. To work through an iteration of the design process from developing needs statements to function decomposition.
3. To identify our target market with justification.

**Last Week’s Activities**:

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| --- | --- | --- | --- |
| Name | Activities | Hours Worked | |
| Last Week | Total |
| Andrea | * Researched search and rescue regulations and compatibility * Researched potential target markets, client needs * Report template | 8 | 9 |
| Carson | * Researched alternative products to the TrailRider, including the Joelette. * Collaborated on target specifications with the team * Started this weekly report | 8 | 10 |
| Julia | * Updated Gantt Chart progress each meeting * Researched biomechanics and wheelchair properties * Determined constraints and needs sacrifices | 8 | 10 |
| Lukas | * Researched comparable products and solutions * Generated a summary of the target market | 8 | 9 |
| Ratthamnoon | * Researched Canadian disability statistics * Worked on target specifications, target market, and needs & stakeholder, and project scope * Finished this weekly report | 8 | 9 |
| Stephen | * Gantt chart * Function decomposition * Researched needs and stakeholders | 8 | 9 |

**Summary of progress**:

* Preliminary research has been conducted on several alternatives to the TrailRider such as the Joelette, the GRIT and the Freewheel
* A preliminary set of target specifications has been developed
* A preliminary target market has been established as paraplegics who would like more independence than offered by the TrailRider when exploring urban, class one terrain

**Assessment of Overall Progress:**

* Most of the tasks that needs to be finished this week is finished, and the rest need minor revisions to finish and not critical for starting next week’s tasks.
* Some team members may do more task wrap up than others, but the team as a whole is on track to complete the project on time.

**Goals for Next Week**:

1. Conclude and document research on the current TrailRider design (complete ‘Investigation’ appendix)
2. Conclude and document research on other products on the market (complete ‘Literature Research’ appendix)
3. Begin generating concepts for each function that has been identified

**Action Items for Next Week**:

|  |  |  |
| --- | --- | --- |
| Name | Action(s) | Due Date(s) |
| Andrea | Revise needs assessment | 9/16 |
| Carson | Summarize current wheelchair specifications | 9/16 |
| Julia | Summarize BCMOS (Investigation Appendix) | 9/16 |
| Lukas | Summarize existing designs (Literature Appendix) | 9/16 |
| Ratthamnoon | Determine overall project scope | 9/16 |
| Stephen | Revise needs assessment | 9/16 |
| All | Function Decomposition | 9/16 |
| All | Concept generation process (C-sketch rounds, concept combination) | 9/20 |
| All | DFMEA 1 | 9/20 |