**CAPABILITIES DOCUMENT**

**Project: DPM Robot Design and Competition**

**Task: Assessing skills and assigning roles of team members.**

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Author: Team 18

V2: It is likely that this document will not change much over the project, since it involves mostly past experiences and skills. If need be, sections will be updated.

-phone numbers added

V3: Changes this week are outlined in blue.

V4: Changes this week are outlined in green.

V5: Changes this week are outlined in orange.

V6: Changes this week are outlined in purple.

V7: Changes this week are outlined in magenta .

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1. TEAM MEMBERS/ RELEVANT INFORMATION

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1. CAPABILITIES

* All studying Electrical Engineering (for now); Everyone is in U1
* Everyone is familiar with basic Java programming from COMP 202
* Victor has skills in startup management, web development, programming in C++, Javaswift, Javascript as well as Photoshop and the old NXT brick.
* Everyone is familiar with Lego blocks
* Bobak has coding skills as well, was also involved in a robotics competition in CEGEP
* Josh can make some sketches

1. POSSIBLE APPLICATION AREAS

NB everyone will be involved in multiple tasks; the person mentioned first is head of that task.

* Project Manager: Josh
* Documentation: Musa, Josh
* Testing: Clara, Matt
* Coding: Victor, Bobak (big part, 2 heads)
* Design: Josh, Victor
* Hardware: Matt, Bobak

Subject to change.

Project Manager: overlooks organization of entire project and makes sure all plans and tasks are up to date.

Documentation: General aggregation of testing data and keeping track of everything done in the project

Testing: Collection of data, debugging, attempting worst case scenario, recording information in testing document.

Coding: programming the NXT, self-explanatory.

Design: Choosing components to build robot with, using models to estimate outcome. Link between hardware and software interfaces.

Hardware: Structural components, optimizing performance, minimizing error

5.0 AVAILABILITY

-Josh isn’t available on Sat; any other time should be fine.

-March break we will not be meeting; people are away

-Matt after 3 on Fridays is not available; also Saturdays

-Musa is not available on Fridays 12-3

- specific schedules: team meetings are held Tuesdays 10-12, TA meetings usually Wednesday at 10:30 for about an hour, and client meetings are on Fridays at 11:10.

6.0 GLOSSARY OF TERMS

None for the moment.