

Capabilities Document  
Version 4.0  
McGill University  
ECSE 211  
Team 20

## CAPABILITIES DOCUMENT

Project: DPM Final Project

Task: Construct a robot that can navigate a closed course to search and retrieve colored rings

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### Edit History

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1.0	<input type="checkbox"/> Created Capabilities Document	18/10/2018	Shaodi Sun
2.0	<input type="checkbox"/> Changed the format of possible application areas table	26/10/2018	Shaodi Sun
3.0	<input type="checkbox"/> Updated week to week availabilities	06/11/2018	Shaodi Sun
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## TABLE OF CONTENTS

<b>1.0 Team Members</b>	Page 3
<b>2.0 Capabilities</b>	Page 3
<b>3.0 Possible Application Areas</b>	Page 4
<b>4.0 Availability</b>	Page 5
4.1 Day to day availability	Page 5
4.2 Week to week availability	Page 6

## 1.0 Team Members

Max Brodeur-Urbas **Student ID:** 260806240 **Email:** max.brodeur-urbas@mail.mcgill.ca  
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 Shaodi Sun **Student ID:** 260712632 **Email:** shaodi.sun@mail.mcgill.ca

## 2.0 Capabilities

Name	Major	Experience with LEGO and LeJOS	Management Experience	Documentation Experience	Experience with Eclipse and Java
Max Brodeur-Urbas	Software Engineering	Intermediate	Intermediate	Intermediate	Intermediate: ECSE 202, 223 COMP 250, 206
Carl Elkhoury	Software Engineering	Beginner	Intermediate	Intermediate	Intermediate: ECSE 202, 223 COMP 250, 206
Zakaria Essadaoui	Computer Engineering	Intermediate	Beginner	Intermediate	Intermediate : ECSE 202
Ayden Malik	Electrical Engineering	Beginner	Intermediate	Intermediate	Beginner : COMP 202 202 COMP250
Ashish Paul	Software Engineering	Beginner	Beginner	Intermediate	Intermediate: ECSE 202 COMP250 ECSE 223 ECSE 321
Shaodi Sun	Software Engineering	Intermediate	Beginner	Intermediate	Intermediate: ECSE 202 COMP 250 ECSE 223

### **3.0 Possible Application Areas**

#### Max Brodeur-Urbas

Primary role of Max is the project manager, which involves tasks such as maintain and updating gantt chart, tracking team resources and budget, scheduling weekly team meetings, coordinating in team to make progress.

- Best suited for project management
- Can help with hardware and software design

#### Carl Elkhoury

Primary role of Carl is the software lead. Since software development for this project is extensive, so we decided to have two Co-software leads in the team.

- Best suited for software development
- Can help with hardware design

#### Zakaria Essadaoui

Primary role of Zakaria is the software lead. Since software development for this project is extensive, so we decided to have two Co-software leads in the team.

- Best suited for software development

#### Ayden Malik

Primary role of Ayden is the hardware lead.

- Best suited for hardware development
- Can help with documentation

#### Ashish Paul

Primary role of Ashish is testing. And Ashish is the only one who volunteer for testing.

- Best suited for software testing
- Best suited for documentation

#### Shaodi Sun

Primary role of Shaodi is documentation.

- Best suited for documentation
- Can help with hardware and software design

## 4.0 Availability

### 4.1 Day to day availability

Members	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Max Brodeur-Urbas	Morning							
	Afternoon							
	Evening							
	Night							
Carl Elkhoury	Morning							
	Afternoon							
	Evening							
	Night							
Zakaria Essadaoui	Morning							
	Afternoon							
	Evening							
	Night							
Ayden Malik	Morning							
	Afternoon							
	Evening							
	Night							
Ashish Paul	Morning							
	Afternoon							
	Evening							
	Night							
Shaodi Sun	Morning							
	Afternoon							
	Evening							
	Night							

*Morning: 8am to 12pm*

*Afternoon: 12pm to 4pm*

*Evening: 4pm to 8pm*

*Night: 8pm to 12am*

**4.2 Week to week availability (put your midterms and other events here and)**

Member	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Max Brodeur-Urbas		324 Lab	Comp 206 assignment	Math 240 midterm		
Carl Elkhoury		324 Lab Geography Midterm +Assignment	Comp 206 assignment	Math 240 midterm		
Zakaria Essadaoui	Comp 250 Assignment	324 Lab		Comp 250 Assignment		
Ayden Malik		CIVE Assignment6	CIVE Assignment 7	-CIVE Assignment 8 -MATH 338 Midterm NA	CIVE Assignment 9 2 Midterms	-CIVE Assignment1 0-MATH 338 Midterm NA
Ashish Paul	Comp 251 Assignment			Math 240 midterm(8th nov)		
Shaodi Sun	Comp 251 Assignment+ ECSE321 midterm	ECSE 324 Lab + FACC 400 quiz + FACC 400 Assignment	ECSE 321 Midterm+ COMP 251 assignment + ECSE 326 Assignment	ECSE 321 Sprint 3 + ECSE 326 Assignment	COMP 251 Assignment + quiz + ECSE 321 Sprint 3	COMP 251 Assignment+ ECSE 321 presentation