CAPABILITIES DOCUMENT

Project: BOB: Bob's Our Builder
Task: To collect blocks and build a tower.
Document Version Number: 2.0
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Author: Mathieu Lapointe
Revision History:
V1.0: Created Sections 1.0 to 6.0
V2.0: Updated Section 5.2: "*Availability on Competition Day (November 29)*";
Finalized Project name.

1.0 Table of Contents

2.0 TEAM MEMBERS

Name	Phone Number	Email Address
Mathieu Lapointe	(514) 994-7562	mathieu.lapointe3@mail.mcgill.ca
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Jackson Wang	(514) 701-7955	zisheng.wang@mail.mcgill.ca

3.0 CAPABILITIES

Name	Mathieu	Harley	Camilo	Juliette	Jastaj	Adham	Jenny	Jackson
Major	Software	Computer	Software	Electrical	Software	Electrical	Electrical	Electrical

Name	Languages	Hardware Exp.	Management Exp.	Softwares
Mathieu	Objective-C, Swift, Java, C, Bash	Arduino, Raspberry Pi	Sub Manager at Clotures Lapointe	Github, Slack, Dropbox, Eclipse, Linux
Harley	Java, C++, C, Python, Haskell, Bash	None	None	Github, LaTeX, Dropbox, Linux
Camilo	Java, C, C++, Perl, Python	ECSESS[1] Robot Team	Cofounder of Sustainable Development Coop	Github, Slack, LaTex, Dropbox, Linux
Juliette	C++, Java, Python, Haskell	FRC[2] competition	None	Github, LaTeX, Dropbox, Linux
Jastaj	Java, C, Visual Basic, Bash	Build a RC car (CEGEP)	None	Slack, Dropbox
Adham	Java, C, MIPS[3]	Quadcopter/Drone design, Arduino	McGill Rocket Team sub-lead, VP finance	Slack, Dropbox
Jenny	Java	None	Volunteering, Management Workshop	Slack, Dropbox
Jackson	Java, C++, Python	debugging of a drone flight control system.	None	Github, Slack, Dropbox

4.0 POSSIBLE APPLICATION AREAS

Name	Suggested primary or secondary tasks based on experience
Mathieu	Software, Team management, Hardware
Harley	Software, Testing, Hardware
Camilo	Software, Hardware, Team management, Testing
Juliette	Software, Hardware, Testing
Jastaj	Software, Hardware, Testing
Adham	Software, Hardware, Testing
Jenny	Team management, Documentation management, Testing
Jackson	Software, Testing

5.0 AVAILABILITY

Name	Mathieu	Harley	Camilo	Juliette	Jastaj	Adham	Jenny	Jackson
Colour								
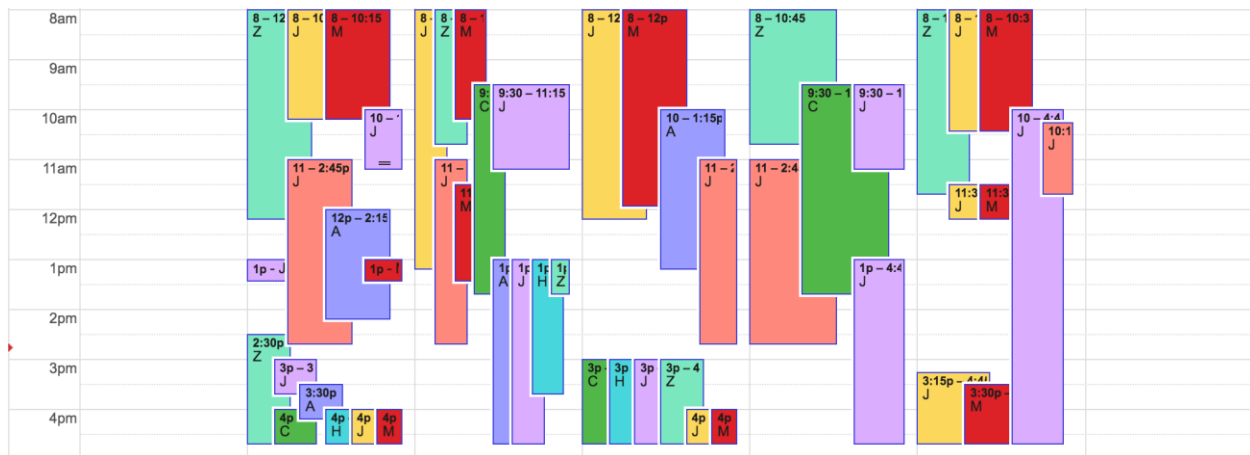
5.1 AVAILABILITY CONSTRAINTS

Mathieu Lapointe: **ECSE 210** (Quizzes Fridays at 14:30), **ECSE 291** (Quiz 2: November 28, Lab Demo: December 1, Labs: Tuesdays from 13:30 - 17:30), **CCOM 206** (Research Outline: October 27, Draft 1 of Research Paper: October 31, Draft 2: November 29, Business Report: November 28 and December 7), **COMP 206** (TBA).

Harley Wiltzer: **ECSE 210** (Quizzes Fridays at 14:30), **ECSE 322** (Midterm: October 28, Class Test 2: November 18, Project: December 2), **ECSE 291** (Quiz 2: November 28, Lab Demo: December 1, abs: Thursdays from 13:30 - 17:30), **CCOM 206** (Research Outline: October 27, Draft 0 of Research Paper: November 3, Draft 1: November 8, Draft 2: November 24, Business Proposal Presentation: November 29 or 31), **PHYS 224** (Weekly Assignments, due Mondays at 14:30).

Camilo Garcia La Rotta: **ECSE 322** (Friday October 28 Midterm, Friday December 2 Assignment), **COMP 302** (Monday November 1 Midterm, Monday November 14 Assignment, Monday December 5 Assignment), **ECSE 291** (Friday November 11 Lab, Friday November 18 Lab, Friday November 25 Lab, Friday December 2 Lab), **GEOG 200** (Tuesday November 15 Quiz, Tuesday November 22 Presentation, Thursday November 10 Mid write up, Thursday December 1 Final Write up).

Juliette: **CCOM 206** (Research Outline: October 27, Draft 0 of Research Paper: November 3, Draft 1: November 8, Draft 2: November 24, Business Proposal Presentation: November 29 or 31)

Jastaj: **ECSE 291** (November 28 Quiz 2, November 29 Lab Demo), **COMP 206** (TBA), CCOM 206 (October 31 Research paper draft 1, December 1 Research paper draft 2, December 7 Business proposal).

Adham: Oct 29th: **McGill Engineering Competition**, **ECSE 351** (November 4 Midterm, November 25 Midterm), **ECSE 303** (November 4 Midterm), **ECSE 330** (November 15 Midterm).

Jenny: **ECSE 303** (November 4 Midterm), **ECSE 330** (November 15 Midterm).

Jackson: **ECSE 291** (Thursday November 3 Lab, Thursday November 10 Lab, Thursday November 17 Lab, Thursday November 24 Lab), **ECSE 322** (Midterm: October 28, Class Test 2: November 18, Project: December 2), **ECSE 330** (November 4 Midterm), **MATH 270** (Monday October 31, Monday November 7).

5.2 Availability on Competition Day

	Demo1 9:50am	Demo2 10:20am	Demo3 2:40pm	Demo4 4:10pm	Presentation 1 9:30am	Presentation 2 11:00am	Presentation 3 12:00pm
Mathieu	🟩	🟩	🟥	🟥	🟩	🟩	🟩
Harley	🟩	🟩	🟩	🟩	🟩	🟩	🟩
Camilo	🟩	🟩	🟩	🟥	🟩	🟩	🟩
Juliette	🟩	🟩	🟥	🟥	🟩	🟩	🟩
Jastaj	🟩	🟩	🟥	🟥	🟩	🟩	🟩
Adham	🟩	🟩	🟩	🟩	🟩	🟩	🟩
Jenny	🟩	🟩	🟩	🟩	🟩	🟩	🟩
Jackson	🟩	🟩	🟩	🟥	🟩	🟩	🟩

6.0 GLOSSARY OF TERMS

ECSESS:

Electrical, Computer and Software Engineering Student Society

FRC:

FIRST Robotic Competition

MIPS:

Microprocessor without Interlocked Pipeline Stages