

CAPABILILITES DOCUMENT

GROUP 4

2nd December 2016
Version 2

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1 BACKGROUND

1.1 Edit History

Jake Zhu: 2016-10-23 Initial set-up. added personal info

Benjamin Willms: 2016-10-23, added personal info

Kareem Halabi: 2016-10-23, added personal info (and emails for some others), re-factored team member directory to table format

Mamoun Benchekroun: 2016-10-23, added personal info

Kareem Halabi: 2016-10-24, small grammatical changes, add glossary and availability

Alexis Giguere-Joannette: 2016-10-24, added personal info and availability

Richie Piyasirisilp: 2016-10-24, added personal info and availability

Quentin Norris: 2016-10-24, added personal info and availability

Alexis Giguere-Joannette: 2016-10-24, added the table of contents

Jake Zhu: 2016-10-30, Ported to L^AT_EX

Kareem Halabi: 2016-11-26 Grammatical and structure changes

2 TEAM MEMBERS

Member	Phone	Email	Roles
Kareem	(416) 557-4760	kareem.halabi@ mail.mcgill.ca	Team Manager
Jake	(514) 794-5788	yimeng.zhu@ mail.mcgill.ca	Documentation Manager
Mamoun	(514) 581-4195	mamoun.benche kroun@mail.mc gill.ca	Testing Manager
Quentin	(514) 867-0001	quentin.norris @mail.mcgill.ca	Member(General)
Tristan	(450) 807-1504	tristan.saumure toupin@mail.mcgill.ca	Software Manager
Alexis	(438) 863-5345	alexis.giguere- joannette@mail.mcgill.ca	Member(Software)
Ben	(438) 763-3401	benjamin.willms @mail.mcgill.ca	Hardware Manager
Richie	(647) 464-9524	master.piyasirisilp @mail.mcgill.ca	Member(General)

3 CAPABILITIES

Member	Software	Hardware	Management
Kareem	Finished COMP 202, 250 and ECSE 321. Completed some personal software projects. Prior experience with LeJOS	Worked on some hardware design for labs 2-5. Prior experience with Mindstorms kit.	Currently G-Store Manager and ECSESS VP Finance.
Jake	Finished COMP 202, 250 and 206. Currently in ECSE 321.	Worked on electrical team in FRC Robotics	n/a
Mamoun	Finished COMP 202.	Worked on hardware design for all labs.	n/a
Quentin	Finished COMP 202, 206, and ECSE 221.	McGill combustion car (SAE), Lego construction since the ripe age of four.	VP Finance for the SSMU Ski and Snowboard Club, U12/U10 Westmount Lacrosse Head Coach
Tristan	Finished COMP 202, 250. Currently in COMP 206. Worked with LEGO digital designer.	Built the robots for the labs 2, 3 and 4. Prior experience with Lego construction.	n/a
Alexis	Finished COMP 202, 250. Currently in COMP 206. Completed websites, iOS apps and some personal software projects.	Worked on the hardware design for lab 5.	Lead lifeguard supervising a team of 70+ lifeguards for 3 years at Super Aqua Club.
Ben	Finished COMP 202. Currently in COMP 250. Completed some personal software projects.	Worked on the hardware design for labs 1-4. Prior experience with Lego construction.	n/a
Richie	Finished COMP 202, 250 and ECSE 321. Completed websites, iOS and Android apps.	McGill Chem-E Car mechanical design, MEC design competition, labs 1-5 robot design	n/a

4 POSSIBLE APPLICATION AREAS

Jake Zhu: Knowing LaTeX and being comfortable with both software and hardware, I would be best suited for the Testing Group or Documentation Manager. In the beginning with not a lot of things to do, I could help the software team come up with the architecture, and I could help the hardware team brainstorm ideas to pick up the blue blocks.

Kareem Halabi: Having prior software, hardware and management experience, I believe I am best suited for Team Manager. I would also like to be involved in the hardware, software and documentation sides of things. I have prior experience in LaTeX which can allow us to potentially version control our documentation the same way as is done with source code (through GitHub).

Mamoun Benchekrou : As I have been primarily focusing on hardware and testing, I believe working in the hardware and testing departments is the best way to make use of my abilities. I can also help with documentation to spread the work needed to be done.

Benjamin Willms: As I have experience with hardware, software, and documentation, I believe I would be best suited to the fields of Software and Hardware. As I am in Computer Engineering, and we have multiple members in Software Engineering, I think I should defer to them on the software side, and be mainly focused on the hardware. Due to all of this, I believe I would be best suited to the role of Hardware Head, with minor roles in software.

Alexis Giguere-Joannette: As a software engineering student and mostly having software experience, I would like to be involved with the software architecture and development. I could also help brainstorming and building the hardware having some experience with Lego construction.

Richie Piyasirisilp: I am well rounded in software, hardware and design as I have been involved in many competitions/teams/projects. I would like to be involved in the construction of the robot and the testing of components and systems. Although I am not the best coder by any means, I have completed many different projects and can provide different perspectives on how to solve the problems we may encounter.

Quentin Norris: Fair knowledge and know-how in terms of coding ability but not the most skilled by any means. Great ability to interpret code and find ways to work around implementation difficulties. This would make me best suited for the job of hardware. My experience as VP Finance of the Ski Club and working a part time job as head coach of the U12 lacrosse team in Westmount throughout the semester has given me the time management skills to also potentially assist the Team Manager and Documentation manager.

Tristan Saumure Toupin: I am majoring in software engineering. I have a lot of experience with Java. I have taken COMP 202 and COMP 250, and completed several side projects using Java. I have a good background with Eclipse and its tools. I also have experience with GitHub and Slack. I am an organized and hard working student. I am a good team player capable of listening and making decisions which I believe makes me suitable for Software Head.

5 AVAILABILITY

Jake Zhu: I have weekly quizzes in ECSE 210. I am also taking ECSE 321 which has a group project and several assignments. The assignments are due 28 Oct, 18 Nov and 2 Dec. The project deliverables are due on 31 Oct, 14 Nov, 21 Nov, and 29-31 Dec (group presentation and source code due date).

Tristan Saumure Toupin: My midterms exams ends on Monday the 24th. ECSE 211 lab 5 is due on Tuesday 25th with the report due on Thursday the 27th of October. I have weekly quizzes in ECSE 210. I am in the running club which occurs every Tuesday and Thursday from 17:30 to 22:30. I am in the McGill EV team, however the schedule is to be determined. I have 5 classes this semester. Other exams and due dates are still to be determined.

Kareem Halabi: Midterms and tests on Oct 26, 28, Nov 15, 18, 28. I also work at the EUS G-Store between 4-5 hours per week and sit on ECSESS council every Tuesday evening. Occasional ECSE 306 assignments due every two-three weeks.

Mamoun Benchekroun: I have midterms on October 25, November 4 and 15. Other than that I have around 8 or 9 assignments left this semester, most of them due at the end of each week, on Thursdays and Fridays.

Benjamin Willms: I have weekly quizzes in ECSE 210 on Fridays, and an ongoing group project in ECSE 322. I will possibly be heading to Ontario between October 29-30, although I could bring an EV3 kit, and work on one of the hardware components. I have a midterm in ECSE 322 on this coming Friday, as well as another exam in the same class later in the semester. I have 2 more assignments for the remainder of the year in COMP 250, and one more exam in the same class. More specific dates will be forthcoming.

Alexis Giguere-Joannette: I have weekly quizzes in ECSE 210 on Fridays. I have a research paper that is due Oct. 31 in CCOM 206. I have two assignments coming before the end of the semester in COMP 206. I work at an orchard on Saturdays.

Richie Piyasirisilp: I have a midterm on Oct 25, Oct 28, Nov 15 and Nov 18. Im helping out with MEC this year so I will not be available from Nov 4-6. I have several assignments for ECSE 306 however the due dates are still to be determined.

Quentin Norris: I have an ECSE 303 midterm November 4th, and an ECSE 330 Midterm November 15th. I have weekly assignments in both these classes in addition to MATH 381. I also have a midterm October 25th in ECSE 330.

6 GLOSSARY OF TERMS

McGill EV Team: McGill Electric Vehicle Team

EUS: Engineering Undergraduate Society of McGill University

ECSESS: Electrical Computer and Software Engineering Students Society

Super Aqua Club: Water slide park near of Montreal

MEC: McGill Engineering Competition

Course codes:

ECSE 210: Circuits 2

ECSE 221: Introduction to Computer Engineering

ECSE 321: Introduction to Software Engineering

ECSE 322: Computer Engineering

ECSE 306: Signals and Systems

CCOM 206: Communication in Engineering

COMP 202: Foundations of Programming

COMP 206: Introduction to Software Systems

COMP 250: Introduction to Computer Science