

# Rescue on wheels process documentation

Team 2

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# **1 Introduction**

This document is an exploration of the process of creating the Metabot. In this document you'll gain insight into how the cooperation within the team started and evolved, agreements we made regards our cooperation, priorities set before and during the development and finally any problems encountered during the project.

## 2 SWOT Analysis

To start off our project in the best possible way, we needed to understand our group dynamic. How our group will behave and perform. To gain a better understanding of this dynamic our coach tasked us with the development of a 'Strenghts, Weaknesses, Oppurtunities and Threats (SWOT) analysis'.

This chapter contains said analysis. First, SWOT analyses of each individual member which are then combined to create a group analysis. This approach was chosen because the group itself may create different characteristics but it still consists of individual members. If we understand the members as individuals, we may get a better understanding of the group.

### 2.1 Individual analyses

#### 2.1.1 Damian

	Helpful (to achieve the objective)	Harmful (to achieve the objective)
Internal origin (Personal attributes)	<ul style="list-style-type: none"> <li>• I am a quick learner.</li> <li>• I am a calm and collective individual.</li> <li>• If I am interested in something i can spend all my time on it.</li> <li>• I have a decent amount of wisdom.</li> <li>• I am capable of quality self reflection.</li> <li>• I am a curious individual.</li> <li>• I yearn for self-improvement.</li> <li>• I have great leadership and conflict resolution skills.</li> </ul>	<ul style="list-style-type: none"> <li>• I tend to procrastinate and only switch to higher gear under pressure of deadlines.</li> <li>• I tend to procrastinate and only switch to higher gear under pressure of deadlines.</li> <li>• I find my technical skills lacking in comparison to my team members.</li> </ul>
External origin (Environmental attributes)	<ul style="list-style-type: none"> <li>• My project team has a lot of bright minds from which I might be able to learn technical skills and improve my current ones.</li> <li>• During this project I have the opportunity to practice the Scrum-master role.</li> </ul>	<ul style="list-style-type: none"> <li>• The rover has proven to be unreliable in the hardware department and might fail once again.</li> <li>• My team, which has more technical skills than me, might outperform me.</li> </ul>

### 2.1.2 Mohamed

	Helpful (to achieve the objective)	Harmful (to achieve the objective)
Internal origin (Personal attributes)	<ul style="list-style-type: none"> <li>• When I work on a product, I am very determined and dedicated to finishing that product and maintain quality at the same time: I will not give up till it is completely done.</li> <li>• I like to help my colleagues if they get stuck with their task during a project</li> <li>• I am capable of having a stable communication with my colleagues, because I am known to be a very social and kind person.</li> <li>• I am totally open to sharing my knowledge with someone else.</li> </ul>	<ul style="list-style-type: none"> <li>• I am known to be a perfectionist. I want to finish the product I am working on in the best way possible. However, most of the time I tend to waste lots of precious time because I am pondering over how I can work on the product the best way possible.</li> <li>• I have a hard time handing out tasks during a project because I do not know whether my colleagues will be able to finish a certain task or not.</li> <li>• I have a hard time to wake up in the morning because I am definitely not a morning person.</li> </ul>
External origin (Environmental attributes)	<ul style="list-style-type: none"> <li>• I would like to meet new people to broaden my network in the future.</li> <li>• I will be able to learn about new technologies on hardware.</li> </ul>	<ul style="list-style-type: none"> <li>• As I only got to know most of the students in my team recently, there may be a student in my team who does not put much effort in the project.</li> <li>• As I am a excellent student, I may get more pressure from my non-excellent students in the project, which could affect me badly.</li> </ul>

### 2.1.3 Mustafa

	Helpful (to achieve the objective)	Harmful (to achieve the objective)
Internal origin (Personal attributes)	<ul style="list-style-type: none"> <li>• Not running away from asking questions.</li> <li>• Healthy curiosity.</li> <li>• Not afraid of confrontation but usually can't be bothered with it.</li> <li>• Doesn't mind when bossed around as long as it's leveled.</li> <li>• Knows how to get along with people if he really wants to.</li> </ul>	<ul style="list-style-type: none"> <li>• Quickly annoyed when someone has an improper way of speaking.</li> <li>• Doesn't appreciate people being or talking authoritarian to him.</li> </ul>
External origin (Environmental attributes)	<ul style="list-style-type: none"> <li>• Can get hands on experience with robotics.</li> <li>• Can expand on his hardware programming.</li> </ul>	<ul style="list-style-type: none"> <li>• Sudden relationship which drags his life downhill.</li> <li>• Lives more than an hours trip away from school while his colleagues are near.</li> <li>• Started a week later with school which makes him 1 week late with his homework.</li> <li>• 2-days a week work.</li> <li>• Excellence subjects which are time consuming.</li> </ul>

### 2.1.4 Yoshio

	Helpful (to achieve the objective)	Harmful (to achieve the objective)
Internal origin (Personal attributes)	<ul style="list-style-type: none"> <li>• Able to balance perfectionism with productivity.</li> <li>• Perfectionist.</li> <li>• Productive.</li> <li>• Empathetic.</li> </ul>	<ul style="list-style-type: none"> <li>• Appears to look irritated even when not, causing some people being afraid to ask/comment something.</li> <li>• Difficult to express appreciation even when truly happy with some result.</li> </ul>
External origin (Environmental attributes)	<ul style="list-style-type: none"> <li>• With the role, delegated product owner, I am able to get more experience in negotiation and communication.</li> <li>• With the role, delegated product owner, I am able to have more control over what we can make.</li> </ul>	<ul style="list-style-type: none"> <li>• Two excellence students in the team. They have a higher possibility of being arrogant. This could result in being pushed over by them.</li> <li>• Two students in the team work 8 up to 20 hours every week.</li> </ul>

## 2.2 Group analysis

