3elissa Jr.:

Mini-Rover Course

Rover-In-School Edition

# 1. Introduction:

Pollution has been a major problem all over the globe, especially in Tunisia as all of our energy sources produce side-effects that could cause long-term damage to our globe.

From non-recyclable plastic waste to excessive carbon use and emissions, we Tunisians produce tons and tons of inorganic waste each year, that if not collected then treated properly, will surely make our existence a living hell.

Now, that’s one problem to solve, but in Tunisia… we sadly have plenty of them. Mostly related to our non-progressing educational system and our extreme use of material energy.

And this is where our invention, 3ellissa Jr., comes into play, hitting not one, not two, but three birds with one rock!

For starters, it is a mini rover made purely by Tunisian teenagers aged between 14 and 16 years old for the sole purpose of solving problems we found in our community; STEM education and project management in schools, as well as pollution.

With all of that powered by pure, non-toxic and efficient solar energy.

# 2. Team Introduction:

## **2.1 Team Members:**

| Eya Lahiani, 15  Engineering Notebook Writer  Head of the Intake Mechanism Sub-team | Ahmed Abdnenadher, 14  Team Coordinator |
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| Mohammed Hedi Ben Jmeaa, 15  Head of the Laboratory Mechanism Sub-team | Yasmine Kharrat, 16  Head of the Drivetrain Mechanism Sub-team |

## **2.2 Sub-Team Members:**

| **Intake:** | **Drivetrain:** | **Laboratory:** |
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| - Yasmine Kharrat  - Ahmed Abdnenadher | - Mahdi Madani  - Eya Lahiani  - Ahmed Abdnenadher | - Yasmine Kharrat  - Eya Lahiani  - Ahmed Abdnenadher |

## **2.3 Supervisors and Mentors:**

| Alaan Ben Ameur, 20  Supervising coach | Aziz Dammak, 20  Supervising coach | Yacine Boujelbene, 18  Supervising coach |
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| Ms. Faten Khalfallah Hammouda  Mentor | Mr. Rabbah Hammouda  Mentor |
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