ASSIGNMENT #1: SIMPLE MOON ROVER

NASA AUTONOMOUS ENGINEERING CHALLENGE

10 MARKS

MISSION OVERVIEW:

You have been hired by NASA to program a moon rover. When the rover arrives on the moon, **it must go through a previously discovered and measured trench** that has a mysterious alien feature at the end of it.

Engineers have **created an exact replica of the trench in the classroom** for you to use to **program the path that the moon rover must make** in order to successfully make it to the end of the trench without hitting the walls of the trench or crashing into the end of the trench.



1. ROVER MOON MISSON



2. CLASSROOM ROBOTICS LAB



3. LUNAR TRENCH DISCOVERY & ALIEN FEATURE

CLASSROOM REPLICA TRENCH SCHEMATIC & NAV PATH



EVALUATION RUBRIC

10 MARKS TOTAL

Requirement	Description	Marks
Mission Completion & Video	Submit a **Video of Rover safely navigating through the trench** to the end without crashing or hitting walls.	**5 MARKS**
Code & Programming Standards	Code handed in with correct programming standards, clear logic, and proper code commenting.	**5 MARKS**