



JIBEBE INTERNSHIP 2022

WEEKLY REPORT



Internship 2022

Progress report

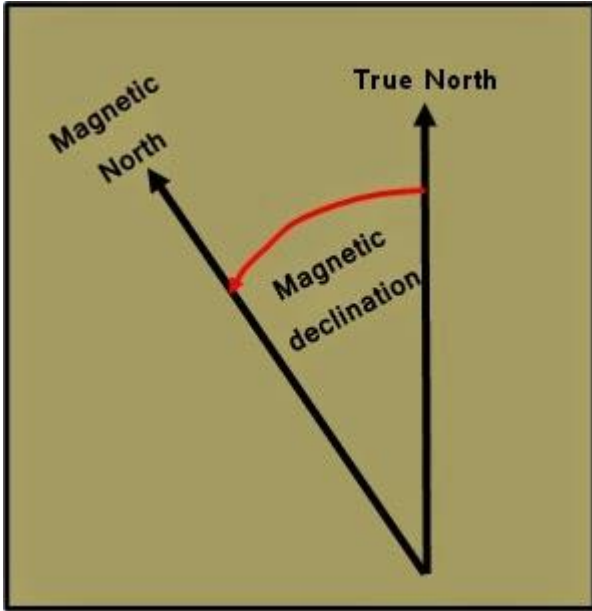
Name: Allan Were

Tasks completed last week

- [#106] **calibration of compass**

The compass was calibrated using the compass calibration program to give it good orientation

The declination angle of the current location was also calculate and found to be 0.57



Declination

This is the term preferred by those who study the magnetic field; it is also the term most commonly used by land navigators. The angle between magnetic north and true north is called **magnetic declination**.

- [#105] **Test run of the robot**

The robot was tested using the gps navigation program. The test was not a complete success but it is good to note that the robot was in sync ie the motors, compass and the GPS were able to work together.

The issue is now to fine tune the code for accuracy and precision

Timeline

Month	Intern week	Tasks
Jan		
	Week 1	Identification of parts and drawing of the chassis diagram.
	Week 2	Circuit diagram and acquisition of parts.

	Week 3	<p>Definition of the path to be followed by the robot car.</p> <p>Laser cutting of the parts.</p>
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Feb	Week 4	<ul style="list-style-type: none"> • Assembly of the robot • Ultrasonic program implementation
	Week 5	<ul style="list-style-type: none"> • GPS and compass navigation • Path definition
	Week 6	Object identification using computer vision. (Raspberry pi & camera)

	Week 7	Transmission of live feed and data from the robot (transmitter and receiver)
	Week 8	Object detection (static and dynamic)