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Smart Parking System

Tested the components of the magnetic field present, in this way knowing the direction of the earth's magnetic field we can calculate the orientation with respect to the magnetic north of the earth, this if our sensor does not is exposed to some external magnetic field or some metallic object that alters the Earth's magnetic field

This time of flight sensor can track up to four targets simultaneously. It utilizes an invisible class 1 laser to measure absolute distance regardless of the target color or reflectance.

We used Arduino ide to test the functionality of both magnetometer and the time of flight sensor. They both functioned as intended.