

Project proposal for master thesis

Title: Implementation of a differential Global positioning system (DGPS)

Supervisor: SidAhmed Berrabah

Abstract:

The objective of this thesis project is to implement a CoRoBa module for a DGPS system. To do this, two GPS units are used. A base station with a known position sends error correction data to the mobile unit (robot) which will use it together with the measurements from its GPS to calculate its position.

The student will receive the following:

- Two Septentrio PolaRx2 GPS systems (2 dual-frequency antennas and 2 receivers).
- Documentation on the Septentrio PolaRx2 GPS system.
- Example of CoRoBa module for data acquisition using for a Septentrio PolaRx2 GPS system.

Student Profile

- Good knowledge of C++

