## EMISY Project 21 Portable Compass

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## 1 Analysis of the project

## 1.1 Discussion of project requirements

We need to create a simple portable compass circuit It should:

- Use energy-saving power modes of microcontroller
- Be battery powered
- Be portable (cellphone/wrist watch)
- Communicate using graphical OLED display and two buttons keyboard

## 1.2 Discussion of solution

- 2 Detailed circuit diagram
- 3 Diagram
- 3.1 Diagram itself
- 3.2 Diagram description
- 4 Draft of the microcontroller firmware
- 4.1 Block diagram
- 4.2 Description of the algorithm