The inspiration

Passionate about cars, I bought a car with the objective of making it a Drift car. Drifting being a demanding sport for the mechanics, I decided to create a multifunctional pressure gauge in order to access all the information on the state of my engine in real time.

Equipment used

To realize this project, I used an Arduino Uno board as a base, an ultrasound distance sensor, a 3d printed plate and a TFT display (touch screen).

The difficulties encountered

My main difficulty was to make the TFT display work because it is not easy to program with Arduino. My second problem concerned the power supply of the board: the display being very energy consuming, the ultrasound sensor is not correctly powered even when using the power supply of the board.

Future of the project

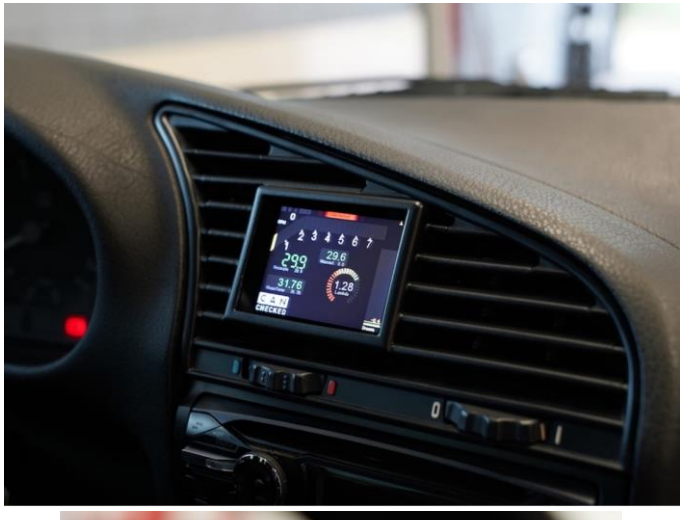
My ambition is to use the project in real Drift conditions, in order to prove its reliability, and then present it to investors. Its cost is much lower than the same products on the market (about 60€ or 70% cheaper than the competitors).

Features

The pressure gauge displays :

- The water and oil temperature
- The air/fuel ratio
- Oil pressure

A reversing radar



Manometer multifonctions (13)

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