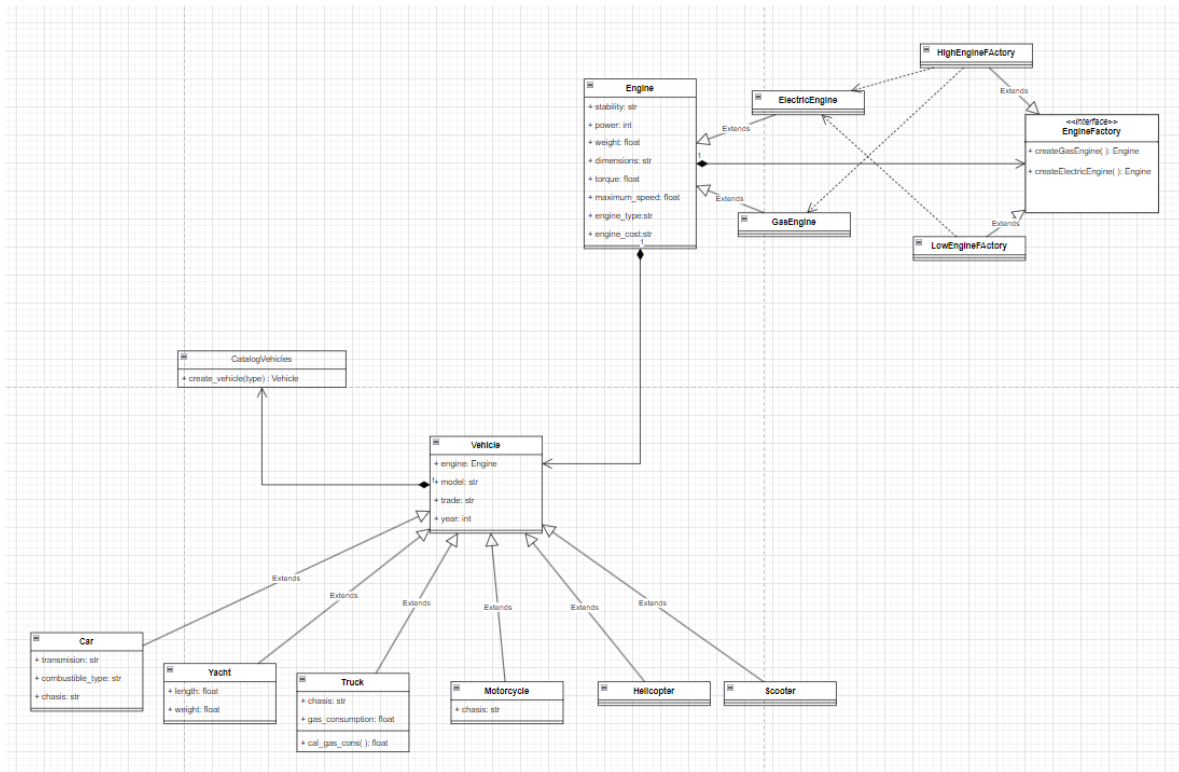


## TECHNICAL REPORT



I decide create a class Engine with all common attribute between both types of engines, Electric and Gas engines. I create two classes name GasEngine and ElectricEngine, they extend of the class Engine

I decide create a class Vehicle with all common attribute between all types of engines, Car, Yacht, Truck, Motorcycle, Helicopter and Scooter. Each type of vehicle has a class with its own attributes.

For the creation of engines, I decide use the pattern abstract factory, there are two factories, HighEngineFactory and LowEngineFactory, each one can create two types of motors, ElectricEngine and GasEngine.

For the creation of Vehicles, I decide use the pattern factory, the name class CatalogVehicles is the factory, its create the different types of vehicles