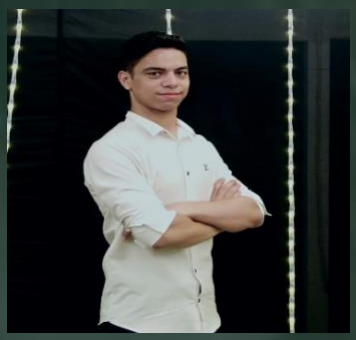
# SMART ROAD

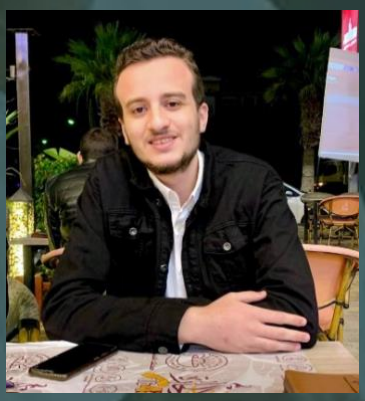
SAFELY DELIVER YOUR ORDER

# TEAM MEMBER

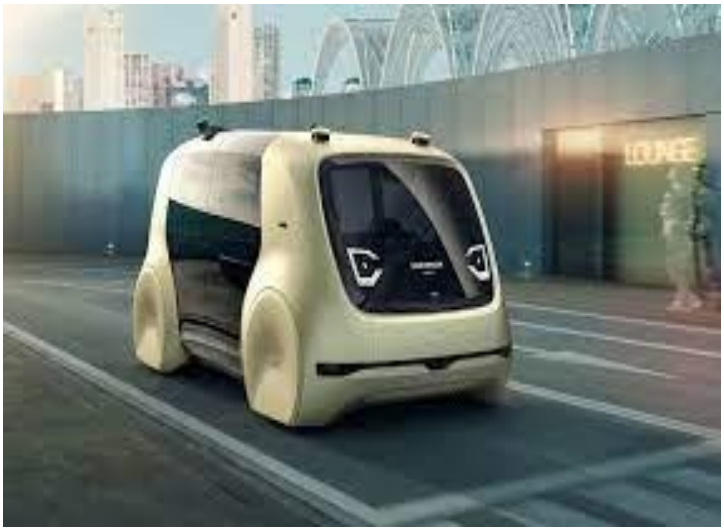


Hossam El-Shamy

Gaser Mohamed




Hussein Shafeek



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# WARM-UP

A self-driving car, also known as an autonomous vehicle, driverless car, or robotic car (robo-Car) is a car incorporating vehicular automation. That is a car incorporating that is capable of sensing its environment and moving safely with little or no human input this technology has an impact on industries.

# INTRODUCTION

Implementation of the technology includes Personal self-driving vehicles, shared robotaxis (also known as self-driving taxis) and connected vehicle platoons. This will help us in soon future to deliver any order safely to customers, as works autonomically.

# THE IMPORTANCE

The potential benefits from increased vehicle auto described may be limited by foreseeable challenges such as disputes over liability. the time needed to turn over the existing stock of vehicles from non- automated to automated, and thus a long period of humans and autonomous vehicles sharing the roads smart roads by self-delivering cars to forfeiting control of order safety and the implementation of a legal framework and consistent global government delivering regulations for self-delivering cars.

Other obstacles could include de-skilling and lower levels of driver experience for dealing with potentially dangerous situations and anomalies, ethical problems where an automated vehicle's software is forced during an unavoidable crash to choose between multiple harmful courses of action, concerns about making large numbers. of people currently employed as drivers surveillance of travels, the orders as a result of intelligence agency access to data sets generated by sensor and pattern-recognition ai and possibly insufficient understanding of verbal sounds other drivers pedestrians.

# OBJECTIVES

Phase 0.1(3 Months)

1. We deal with “Dr.Sara EL-Metwaly” and”Eng.AMR EL-Edkawy” for selecting this project of smart road as a project in artificial intelligence(AI) subject.
2. We will use a prepared science lab in Mansoura university.
3. We will make a simulation model by unity platform.

Phase 0.2(3 Months)

1. Deal with an investor to get a suitable fund.
2. Deal with “Grand Lab” to make a model for a self-driven car.
3. We will take part in a competition for intelligence city.
4. We will make a proto-type.

## Phase 0.3 (3 Months)

1. We will communicate with valio to take intership for graduated projects.
2. We will consume this project of self-driven delivery in final/graduated project.
3. We will participating with one of delivery orders company to deliver these orders to one of smart cities.

## Phase 1 (1 year)

1. We will rent two offices in the intelligence and knowledge city.
2. We will employ around twenty employee.
3. We will deal with one of service company,training center and marketing company.
4. We will produce around twenty cars for using them in the new administrative capital.

# PEAS

### Performance

- Safe
- Legal
- Profits
- Fast
- Regular

### Environment

- Customers
- Raods
- Traffic
- Cars

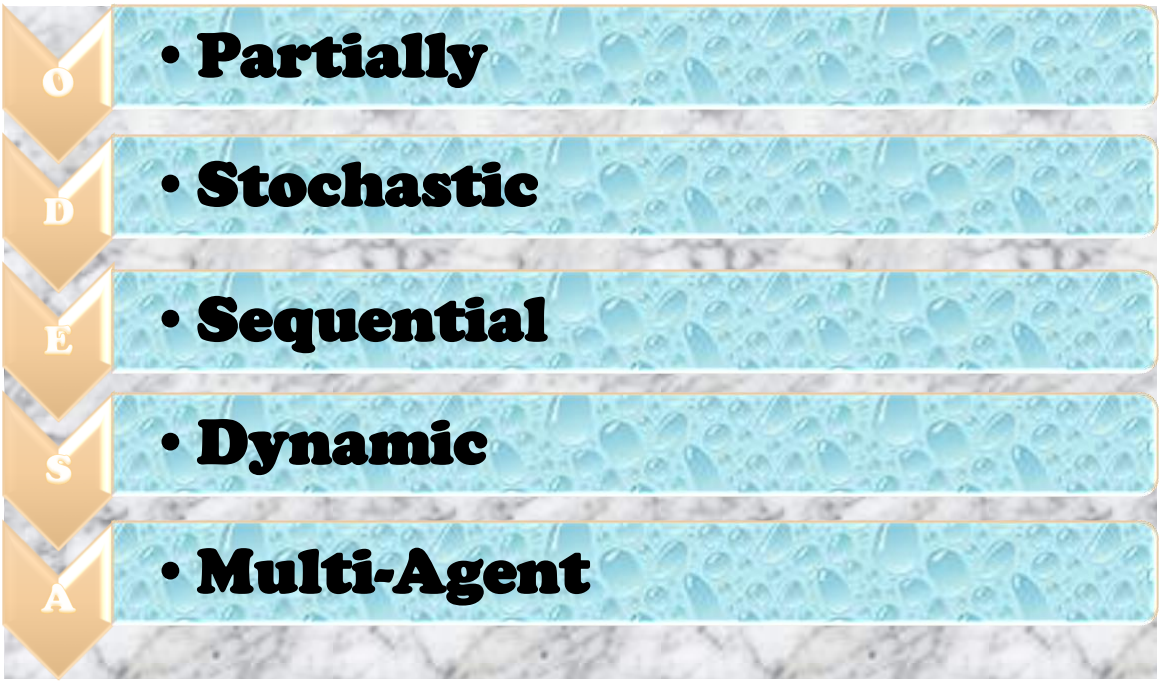

### Actuators

- Stearing Wheals
- Accelerator
- Broke
- Signal
- Speaker
- Screan
- Notifications

### Sensors

- Camra
- Gps
- Angine Sensors

# ODESA


O
• Partially
D
• Stochastic
E
• Sequential
S
• Dynamic
A
• Multi-Agent

# USED TECHNOLOGY

# METHODOLOG