****Cairo University

Faculty of Engineering

Electronics and Electrical Communications Engineering Dept.

|  |
| --- |
|  |
| AUTOMOTIVE CAR |
|  |
| Dr: Hanan Kamal |

|  |  |
| --- | --- |
| Student Names | Student E-mail Addresses |
| Mahfouz shiref Mahfouz Hafez | eng\_mohamed\_1199@yahoo.com |
| Mahfouz shiref Mahfouz Hafez | eng\_mohamed\_1199@yahoo.com |
| Karim Ahmed Mohamed Mousa | kemo\_kono2011@yahoo.com |
| Mohamed Ahmed khaled Abo Ragab | eng\_4all@yahoo.com |
| Mohamed Gamal Eldin Mohamed Zaki | mnasamna@yahoo.com |

AUTOMOTIVE CAR

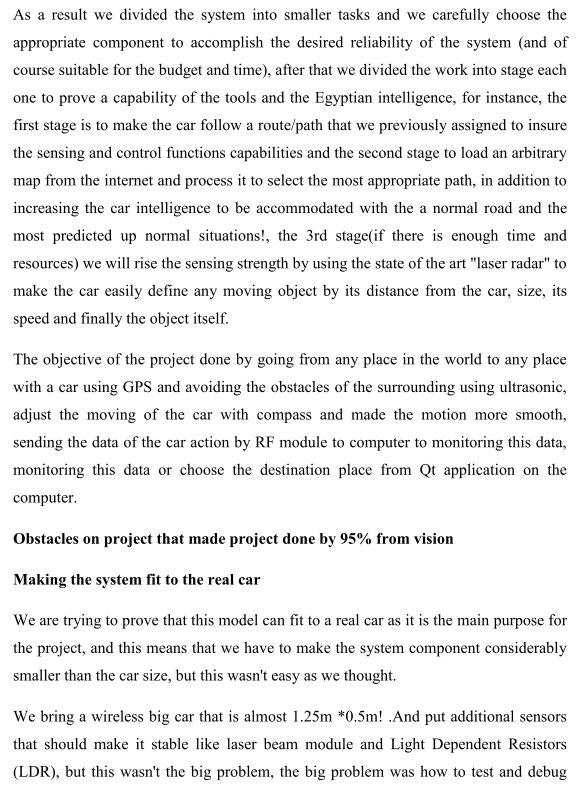
Dr: Hanan Kamal

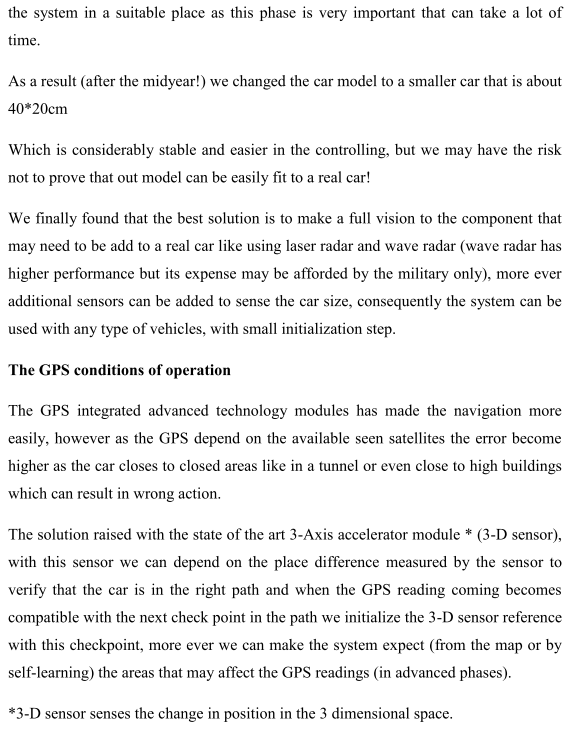
**Abstract:**

The objective of the project is to build a full driverless car transports using GPS and Google Maps to any place automatically, beside that it can be used for any created custom map like the faculty map. It is equipped with the intelligence needed to deal with road specification, such as avoiding obstacles, taking hard turnings and run time path monitoring using different sensors to get the current position, the current orientation and a brief picture of the environment. A friendly GUI is designed on the user’s machine will promote him to select the desired destination, and with the help of the internet servers that will return the path between the car current location and the desired location, the machine will transform that path to a series of useful information the car control unit will make use of. This is the first step to the goal; next steps contain new tools, design and higher level of intelligence to achieve the reliability a man can trust for his life.

The project shows hopeful results, the model could complete a journey traveling from any source to any desired location, smoothly avoided any obstacle in the path and almost respected the path boarders. The project proved that we now have the capabilities to achieve the self-controlled machine.

**CONCLUSION:**





**FUTURE WORK:**

