

Assignment 1 Engineering systems

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Self Driving Car (Tesla model S)

Important Attributes

| ID | Attribute | Discription |
|----|---------------------------|--|
| 1 | Electric Charge | Uses electricity instead of natural gases |
| 2 | Self Driving | Does not need a person to drive the Car |
| 3 | 5 Person Capacity | Just like a normal car, it has a 5 person capacity |
| 4 | Sleep detection | If the person falls asleep while driving, the car stops |
| 5 | Adaptive Lighting | Light adaptes to the lane, hence easy to detect the Car |
| 6 | Bio-Weapon Defense Mode | removes at least 99.97% of particulate exhaust pollution |
| 7 | Touchscreen | Touchscreen for media and GPS |
| 8 | Phone | Make calls without using your cellphone |
| 9 | Charging Stations | Can be charged at all Gas Stations |
| 10 | Voice activation Controls | Use voice to give instructions |

Non-functional Attributes

| ID | Attribute | Discription |
|----|----------------------|---|
| 2 | Cost Efficient | Does not need a person to drive the Car |
| 1 | Environment Friendly | Uses electricity instead of natural gases |
| 3 | High Tech | State of the art product |