ALL TERRIAN VEHICLE

Team members

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Motivation:

In this project we aim to learn and make a vehicle which can travel on any land mass . It has very large scale implementation in surveillance in military and rescue operation .It is having the functionality of a camera which will send images time to time .

Through this project we aim to learn about Bluetooth controlled travelling and the mechanics behind this .

We are planning that the Bluetooth module will give signals to our mobile phone

Although the product is available in market we aim in reducing the cost too. In market this is about 20000/- and above .

However if time permits we will further enhance it to the internet controlled which can be operated sitting far enough .

And will try to give it functionality to go in any water surface as well if time permits.

Please suggest if we can modify it in any way .

Implementation:

Week 1: Research about the topic

Component searching

Learning ardino coding

Week 2: Bot design

Completing basic mechanical part

Week 3: Continuing mechanical adjustments

Starting electrical adjustments

Week 4: Electrical components

Week 5: Final touch with the coding

Fabrication

Week 6: Enhancing the capabilities of the bot

Cost estimation

In this project we have approximated the expenses however this may not reflect the actual amount

1. **Arduino uno/mega -**   850/-
2. **HC-05 BT module-**   1852/-
3. **12v Dc motors-**   200*6=1200/-
4. **Motor drivers-**   250/-
5. **Resisitors**   100/-
6. **Voltage regulator-**   200/-

7. **Web Cam-**   520/-

8. **Battery-**   1000/-

9. **Extra**-   1000/-

10. **Aluminium-**   200/-

Total -   ***7000/-(approx)***

Note : However we are unfamiliar with the machinery and the cost may rise by amount 2000-3000/-