

Report on IRSAM

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i. Plan of action

a. Examination of the IRSAM:

After the transfer of technology process of the IRSAM from the previous employee of this organization our team has drawn the following conclusion.

- Needs tuned PI Algorithms.
- Triangulation Problem had yet to be resolved.
- Unnecessary No's of microcontrollers installed in the system

b. Current Measures:

Looking forward at the present condition of the IRSAM following measures are to be taken.

1

What

Actuating the motion system of the SAM using previously written codes and design.

When

9th September 2013 – 15th September 2013

Who

Working under the supervision of Mr. Ali Syed, I (Kh Taimoor Tanweer) and some help from the CRG members will work on this project. After observations, a brief report will be presented to Dr. Shoab A Khan.

2

What

Researching and employing all the sensors and actuators necessary to make IRSAM functional.

When

9th September 2013 – 20th September 2013

Who

Working under the supervision of Mr. Ali Syed, I (Taimoor Tanweer) and some help from the CRG members will work on this project. After observations, a brief report will be presented to Dr. Shoab A Khan.

3

What

Finding optimal solution for the triangulation problem currently faced by the system in different environmental conditions.

When

16th September 2013 – 15th September 2013

Who

Working under the supervision of Mr. Ali Syed, I (Taimoor Tanweer) and some help from the CRG members will work on this project. After observations, a brief report will be presented to Dr. Shoab A Khan.

c. Contingency Plan

Everything will be done from the scratch if possible i.e. Control algorithms will be rewritten, communication protocols will be reconsidered, and most important research on triangulation problem will be done which includes software as well as hardware solutions.