

Third Winner

Project Title

R&D

Position Defining Sensor in Flying Objects



Initiator: Qods Aero Space Industries Organization, Ya Mahdi Industries Group

Colleagues: M. Kazembeigi (MSc), A. Nazarzadeh (MSc), N. Babakhani (BSc), A. Qhasab (MSc), A. Mahmoodlo (BSc), H. Byatifar (MSc), N. Naderi, M. R. Abbasi (MSc), H. Zavari (BSc), M. Amri (MSc), A. Ghaffari (BSc), R. Keshavarz (MSc)

Representative:

A. A. Habiba

Abstract

The main objective of this project was the keen interest and requirement of different industries especially those in defense fields for rehabilitation and use in laid investment on remote flying objects.

As a matter of fact, the above technology was not present in Iran and not achievable from abroad due to foreign restriction.

The above technology has a wide range of usage such as agriculture, industries and shall enable them enhance their fields activities. The designed sensor has many usage in civil fields such as photography, poisoning, weather casting and in defense fields like spy flying objects, tornadoes, missiles and so on.

At present with the design of the above sensor not only the requirements of the industries are fulfilled but also damaged systems can be relieved and upgraded. The other aspect is editing technology, design and manufacture of high speed miniature DC motors, mercury level switches, Torques, wire wound tiroeeds, slip rings, graphite potentiometers and different grades of Alnico magnets which have many applications in complicated dynamic mechanisms.

This design began on March 2002 with a total research investment about 130000 dollars without any foreign help especially in human resources.

The achievement was completely done by the Iranian experienced experts who had enough knowledge of design and experience on reverse engineering, different standards, modern laboratories equipment and experience of gyroscope production.

The research was completed with a sample on March 2003 and after passing all required quality and end user tests and his confirmation the mass production began on August 2005. We hope with this achievement, we have been able to pave the way for the other designers and experts of our country.