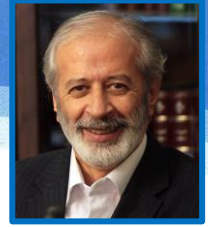




First Laureate Research & Development



- ◆ **Project Title:** Technology Development Acquiring Indigenous Technology of Design, Manufacturing, Functional and Environment Tests of small satellites - Mesbah Satellite
- ◆ **Researcher:** Mohammad Hassan Entezari (M.Sc.)

Abstract:

Exploitation of space technology represents the degree of national power and technology ownership. This technology is owned and controlled by a few developed countries. Developing indigenous capabilities to develop this technology is a strategic and national need.

Mesbah Communication Research Satellite is a research project to

- Design, manufacture , test the Flight Model of the Mesbah Satellite
- Acquire in house satellite technology capability and making necessary infrastructure to manufacture and test small satellites.

Mesbah Satellite Specifications:

- Low Earth Orbit small satellite
- 1000 km orbit
- 80 kg weight
- Consisting of: Structure, Thermal Control, Altitude control, On Board Data Handling, Telemetry and Control, power Subsystems
- 3 years life time

In this project, Lab model, Engineering Model (EM) and Flight Model (FM) of Mesbah Satellite have been developed and manufactured. The Mesbah FM model is ready for Flight