

### Third Laureate Applied Research



- **Project title:** Movable multi-purpose closet under ceiling
- **Representatives:** Hamed Samadi Azar (MS.c), Bagher Matlabi (BS.c)
- **Executive Organization:** "TARH ACE MEMARI" consulting engineers company

#### Abstract:

The populate increase has lowered the living space per capita ratio. Applying movable and multi-purpose components with simple mechanism will eliminate the problem of space inadequacy in the process of building mass production, especially in housing. In line with this purpose, "movable multi-purpose closet under ceiling" will provide the simultaneous and various exploitations of internal spaces for its users. Modular closets with attached levers are set horizontally below the ceilings structure of the buildings. These closets are available for users through connection of the main springy arms with the movement in an oval route vertically and similar to the common closets. Closets horizontal closet beneath the ceiling, simultaneously play the role of suspended ceiling, lighting and illumination, sound bands and even images (depending on the space application in terms of being residential, commercial, administrative etc.). With regard to the user's need a motor which is placed in the suspended ceiling, springy arm keeps the closets at the 30 degree toward ceiling by releasing the closets. In addition, each row of the required closets is pull down by user manually and or electrically and is locked at the vertical position. Finally, releasing the closets' lock through main springy arm, it is placed again at the 30 degree position and by motor user command, motor turns to the horizontal position. So, the suspended ceiling converts to a flexible architectural component with various applications.

