



TITLE: STUDYING THE Third branch: Production technology and management

Entitled:

Applications of new sciences in Design and production of architecture mobile for exhibitions

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ABSTRACT

This research deals with clarifying the concept of the flexibility in the interior design system of mobile architecture or prefabricated architecture for exhibitions and its relationship to the creative thinking as one of the key points which face the future developments and the reflection of the technological development which make its role more important in the interior design and furniture.

Aim of Research:

This study focuses on the technological development of portable exhibitions structures and its needs.

Research problem:

Marginalization of mobile architecture for Exhibitions and its relationship to the creative thinking due to the difficulty of clarification of design concepts and the technology needed to be used by the designer in Developing countries.

I. INTRODUCTION

The evolution of life styles and modern techniques led the designers to move towards the development of new concepts compatible with the future of life, so the concept of mobile architecture has emerged which allows establishing a building or organizing a site by a temporary method, which can be folded, unfolded and installed. It can be also used in man-made environment and is characterized by being changeable and mobile.

Mobile show rooms or mobile exhibitions are example of the mobile architecture which will be studied to show their advantages and to determine their technology in order to fulfill their needs. This study will stress on the types of technology of the transformable furniture, which can be folded, unfolded and installed.



Results and recommendations:

- The standard of prefabricated and mobile architecture for exhibitions is (the adding, deleting, replacing and changing ability).
- The units of mobile architecture for exhibitions should be light in weight to be easy in dismantling and Composition.
- The flexibility in the interior design system of mobile architecture for Exhibitions appears in a lot of systems such as "Axis cable tension system, portable pop up systems & Meroform Modular Systems" Which can help in the creative thinking.

AXIS CABLE TENSION SYSTEM

AXIS CABLE TENSION SYSTEM	AXIS CABLE TENSION SYSTEM FOR PANEL	AXIS CABLE TENSION SYSTEM FOR SHELVES
 <p>http://www.cphgraphicsupplies.com.au/pdfs/cph_cat_InnovativeSignage.pdf</p>	 <p>W1 PG panel Grip This is for 9mm thickness panel</p>	 <p>W1 SG Shelf Grip large</p>
<p>Application in mobile exhibition is</p>	 <p>W1 PG panel Grip</p>	 <p>W1 PG panel Grip</p>
 <p>http://www.cphgraphicsupplies.com.au/pdfs/cph_cat_InnovativeSignage.pdf</p>	 <p>W1 DPG Double Panel Grip</p>	 <p>W1 DSG Double Shelf Grip</p>
 <p>http://image.made-in-china.com/show/heTQM0vkhlet/Building-Material-Acrylic-Panel.jpg</p>  <p>This connector shows how can we divide the space by different ideas and its easy to fix and remove</p>	 <p>W1 DPG Double Panel Grip large</p> <p>http://www.cphgraphicsupplies.com.au/pdfs/cph_cat_InnovativeSignage.pdf</p> <p>Axis W15 CM Ceiling Connector</p>	 <p>W1 DSG Double Shelf Grip</p> <p>Axis W15 FM Floor Connector</p>



portable pop up systems

<http://www.atechgraphics.co.uk/downloads/brochure/At ech-Brochure-٢٠٠٩.pdf>

Meroform Modular Systems- Advantec System

This system we can use in a big areas ,structures & partitions for a mobile exhibitions

<http://www.octanorm.de/Pages/Products/ProductBrowser.aspx?dep=VMS&ch id=٢٣>

<http://www.atechgraphics.co.uk/downloads/brochure/At ech-Brochure-٢٠٠٩.pdf>

This system can be fold and be more smaller &it is a creative system in a mobile exhibitions

Maxima light system applications in the interior design for mobile exhibitions vv

http://www.europoltech.pl/title,Standard_Maxima_Light_pid,١٥٠٠_lang,T.html

These plans of pop up systems show how can we reshape a design in the space and we can add or remove units as we need it make us thinking by creative ways by grid and units

[http://www.octa.pl/galeria_prod/'x'\[''\]](http://www.octa.pl/galeria_prod/'x'[''])

This system we can use in mobile Exhibitions because it is easy in Jaw and Composition .

The variety of different units of Meroform Modular Systems which can use in movable exhibitions.



- Smart technology is useful in electricity generation and distribution for portable Exhibitions in order to save energy to the exhibit and it could also be used as an introduction to an associated energy and environmental resource center& also it can be balancing an energy-dependent society with the limits of the Earth's natural resources.



<http://www.neienergyexhibits.org/about/satellite-exhibit-concepts>

Recommendations:

- The global technology ways for portable exhibitions should be used in useful projects of Developing countries.
- We need more researches of smart technology which should be in a mobile architecture exhibitions structures to achieve its target to save energy in a developing countries.
- Nano technology materials characterized by light weight so it can be mobilized easily to be utilized in the portable exhibitions, accordingly more studies needed.