

MEDAD

C o m m u n i t y

201#4
NEW YEAR

January -14





TABLE OF CONTENTS

Medad News
Tips& Tricks
Green Tech
Interaction

2014

A decorative black swirl or flourish is positioned to the left of the year '2014'. It consists of several elegant, flowing lines that curve and loop, resembling a stylized calligraphic element or a musical flourish.

ABOUT US

MEDAD over two decades of experience in the field of engineering consultation in the Middle East region

Positive leading role in **Community Development**, is our goal.

Humanity, is our ultimate concern.

History

The beginning was in 1988 with Concept Architects established by Arch. Hussein Assad. In 1996 Concept Architects and Integrated design group merged to form a new entity called Albonian. The Architectural group was separated from Albonian in 2009 and formed a new entity under the name of Medad Consultant Engineers.

كانت البداية عام 1988 عندما أنشأ المهندس حسين سعيد أسعد مكتب (كونسبست مهندسون معماريون). وفي عام 1996 اندمجت كونسبست مع انتجراتد ديزاين جروب ليكونا كياناً جديداً تحت مسمى (البنيان). انفصل الفريق المعماري عن البنيان عام 2009 ليكونوا كياناً جديداً تحت اسم (مداد مهندسون استشاريون)




Hussein Asaad
CEO

The Relationship Between The Architect and The Building

علاقة المعماري بالمبنى

The relation between the architect and his drawings, is not only a materialistic or professional work, but it is also a deep bond connects them together, as the bond that connects the father with his son.

In order to clarify, let's take the fatherhood example; Any project starts with an idea, like a little child (which is a gift from the Almighty God), and it's in the hands of the architect (father) to develop and add more value to the idea (the little child) what we architect would call it "primary drawings" where the child goes to "primary school", then he attends the "development and work-

ing drawings" where he goes to "secondary school", and the final phase that we call it the "construction supervision", where he goes to college. Then finally the little boy is no longer a little boy, and now he will be by himself on the graduation day to start his new independent career, which is as equal as the day we deliver the building to the client, where he might hire security men, that might prevent the architect from entering!

However on the other side, on that day, there is always mix feelings of having completed the mission of a successful project, mixed with our feelings and emotions that we were the ones who

created the character and personality of that building, and now we will leave it and go on!

But our happiness is always greater as long as the child graduates with honors

قد يعتقد البعض أن العلاقة المادية أو العملية هما كل ما يربط المعماري بأعماله. إلا أن الواقع يخالف ذلك تماماً. فعلاقة المعماري بأعماله علاقة تصل بمستوى قوتها لمرتبة قريبة من علاقة الأب بأبنائه. ولنشرح ذلك، سنأخذ مثال الأبوة، فأي مشروع تولد فكرته مثل الطفل الصغير. وهي هبة من المولى عز وجل ويكون دور المعماري هو التطوير المستمر لهذه الفكرة في مرحلة الاسكتش المبدئي - أي رسومات ابتدائية فالرسومات المتطورة، وأخيراً الرسومات التنفيذية، التي يتم طرحها حيث تنفيذ الخراسانات ثم التشطيبات إلى تسليم المبنى. وهي تشبه كثيراً علاقتنا بأبنائنا عندما نراهم يكبرون ويلتحقون بالدراسة حتى يوم تخرجهم واعتمادهم على أنفسهم. وهذا أشبه بيوم تسليم المبنى

وهكذا يوم إنهاء العمل هو يوم انتهاء المهمة، مهمة التربية، وتشكيل شخصية وطابع هذا المبنى ويكون يوم فرحة بإنجاز المهمة. وتكون الفرحة أكبر كلما كان الإنجاز على أكمل وجه

MEDAD أخبار NEWS

3RD PLACE

The engineers syndicate has announced that Medad Consultant Engineers company has won the 3rd place in the architectural competition for planning and designing the residential compound in the 8th district - burg el arab city - Alexandria, Egypt

أعلنت نقابة المهندسين بفوز مداد مهندسون استشاريون بالمركز الثالث في المسابقة
المعمارية لتخطيط وتصميم المجمع السكني بالحي الثامن بمدينة برج العرب ، الإسكندرية



BURG EL ARAB CITY.



FAYOUM

STENCIL Training Center



The Swiss Ambassador is visiting the Young Girls Training Centre in Fayoum (Stencil Training Centre) to follow up on the business and to know the enviromental dimintions to implement the project's stages.

زيارة السفير السويسري لمشروع (Stencil Training Center) مركز تدريب الفتيات بالفيوم لمتابعة سير الأعمال والوقوف على الأبعاد البيئية لتنفيذ مراحل المشروع



Swiss Agency for Development and Cooperation



Project Background

A Stencil Training Center in the village of Khalta in Fayoum. The project adopted a multi-dimensional approach for community development. First, it aims at empowering women in one of the poorest areas in Egypt by increasing their income and improving their living standard. Secondly, it aims at fostering a new economic activity in the village which would create more jobs and opportunities. Thirdly, the introduction of such eco-friendly building using natural materials would add for the local construction culture in the village. Finally, training the local workers on the different construction techniques might support the new demand and create more jobs for the community. The whole project is being funded by the Swiss Agency for Development and Cooperation.



NAMAA Swift 250

ADMINISTRATIVE BUILDING

Mission Completed



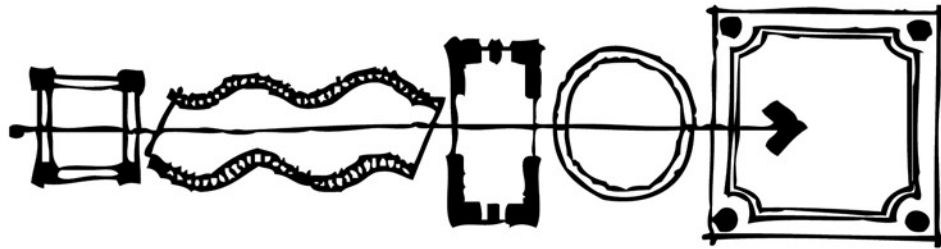
Tips & tricks

أفكار
وحلول



#2 Tips for Architecture Students

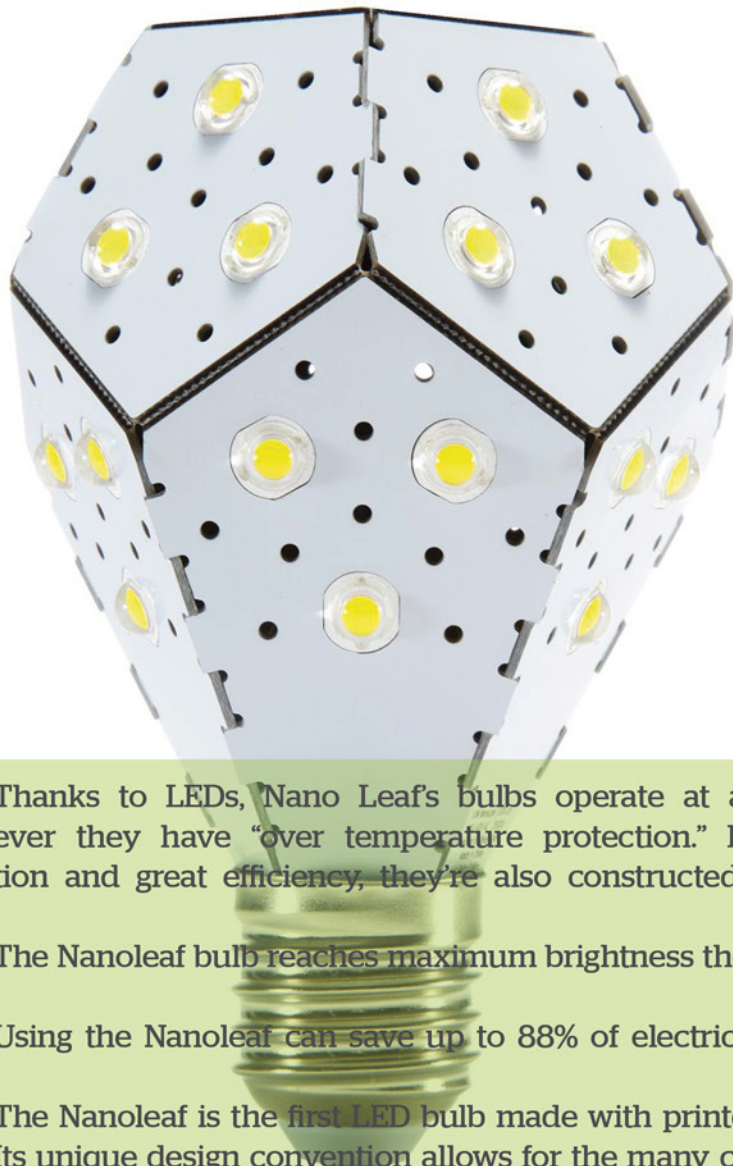
OUR EXPERIENCE OF AN ARCHITECTURAL SPACE IS STRONGLY
INFLUENCED BY HOW WE REACH IT.






A long, bright space will feel longer and brighter if counterpointed by a low-ceilinged, softly lit space. A monumental or sacred space will be more significant when placed at the end of a sequence of lesser spaces. A room with south-facing windows will be more strongly experienced after one passes through a series of north-facing spaces.

101 Things I Learned in Architecture School
Matthew Frederick

TIPS & TRICKS



Nano Leaf's

# of Bulbs	Electricity Cost
	\$400
	\$100
	\$50

Thanks to LEDs, Nano Leaf's bulbs operate at a lower temperature, however they have "over temperature protection." In addition to cool operation and great efficiency, they're also constructed without mercury or lead.

The Nanoleaf bulb reaches maximum brightness the instant you flip the switch.

Using the Nanoleaf can save up to 88% of electricity than incandescent bulbs.

The Nanoleaf is the first LED bulb made with printed circuit board technology. Its unique design convention allows for the many color and design options. Unlike other LED light bulbs, the NanoLeaf bulb directs light in all directions. This matches light to be distributed evenly, comparable to traditional light bulbs.



A hard hat that's just so sweet: It's made of SUGARCANE

Pittsburgh-based safety equipment manufacturer MSA recently unveiled an industrial hard hat that is made entirely from renewable material.

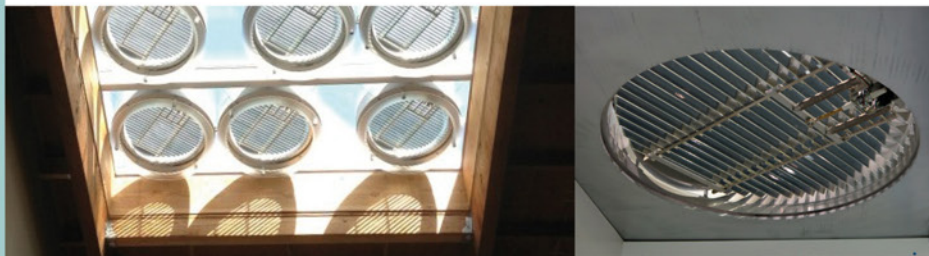
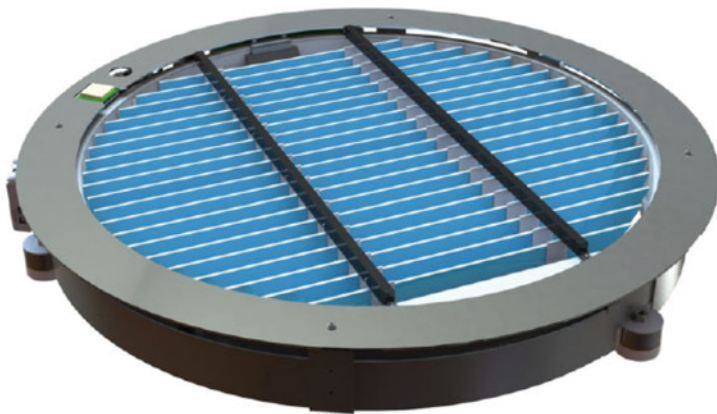
The MSA-Gard GRN Hard Hat is composed of sugarcane ethanol, which has a very small carbon footprint. Just like any other safety hat, the GRN

Hard Hat provides head protection without any compromise - and its earth-friendly construction is the icing on the cake.

Green Tech تكنولوجيا خضراء



SunBeamer™ 380



The **SUNBEAMER** skylight is a clever and surprisingly simple daylighting solution that directs sunlight exactly where you need it most. Developed by SunCentral, the sun-tracking circular skylight uses rotating mirrors to shoot beams of light deep within a building.

The idea may look simple, but it took years of development to miniaturize and perfect the tracking technology. It's a bit like the air grill in a car: the fins can open or close, and the entire assembly rotates. A GPS chip tracks the sun and enables a motorized mirrored louver to pinpoint the reflected light on to any surface all day long. A spotlight was hung from the convention hall ceiling to demonstrate the SunBeamer's ability to direct daylight anywhere on the show floor.

The **SUNBEAMER** is sandwiched in glass and put on a curb like a typical skylight, and it comes in three sizes. The largest measures 670 mm round (approximately 26.5 inches) and provides up to 9,100 lumens of daylight. They can be placed in groups to maximize daylight that hits a roof, and they can direct beams of light deep inside a building. SunCentral even proposes to mount SunBeamers on the edges of buildings to direct light down to the sidewalk far below. Alternately, the SunLuminaire can take light from facade mounted units and project it through a tube diffuser suspended from a building's ceiling. They could even be used to make the proposed underground LowLine Park light up in the day.

SUSTAINABILITY IN Masdar City

Masdar City is an emerging magnet for talent, financial capital and entrepreneurship in the renewable energy and technology field.

The low-carbon development has an integral role in transforming Abu Dhabi's economy from an oil foundation to a knowledge-and-innovation base by serving as a centralized test bed for global renewable-energy and technology companies.

The city itself is designed to maximize convenience and reduce environmental impacts.

Nearly all of the electricity in Phase 1 is offset from a 10MW solar photovoltaic plant and an array of building-mounted solar panels, reducing the need for power produced by fossil fuels.

Streets maximize shade all day long, capturing cooling breezes, and reducing the need for air conditioning.

A mix of educational and recreational spaces, along with housing, retail, manufacturing and office spaces allow commuters and residents to find everything they need close at hand, reducing transportation needs.

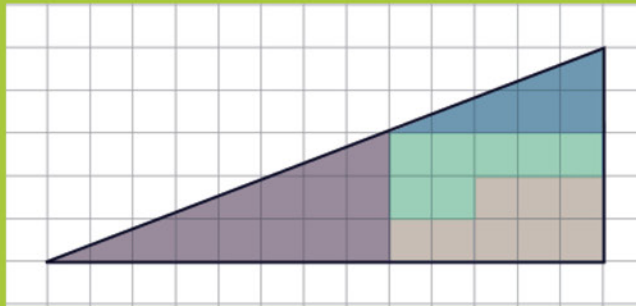
Buildings are densely populated, allowing for living and working in the same location. This reduces heating, cooling and internal transportation needs.

High-efficiency appliances, low-flow showers, a water tariff, smart water meters and treated waste-water that is recycled for plant irrigation ensure water conservation.

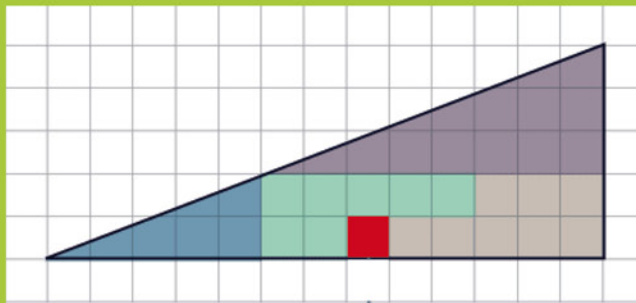
Interact US

تفاعل مع

with



The four peices that make up the first shape are rearranged into the second shap



The peices in the second shap are the same size as in the first. SO

FROM
WHERE
COMES THIS
HOLE



Hints: are the lines straight?
use the $1/2bxh$ rule

Let's say

It takes 5 machines 5 minutes to make 5 pencils.

How long would it take
100 Machines to make
100 Pencils?

10 Minutes

100 Minutes

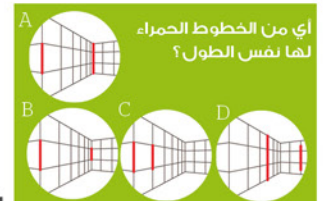
5 Minutes

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Which of these **Red Lines**
Have Same length ? A, B, C, D

ANSWER

A



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