## CHARACTERISTICS

2

#### GLASS:

One major characteristic used in Hi-tech modernism is the use of glass. In many designs throughout this genre glass is used in great quantities.

Glass is a perfect substitute to other materials because it is transparent. This therefore enables people to examine the structural components behind them, also at the same time keeping a modern and normal shape to the building.

Glass also allows the building to be viewed from all angles hiding nothing. This is varied from other buildings from other eras because these buildings contain closed in areas, while the glass walls in Hi-Tech Modernism create a see all, bear all environment

#### COMPLEXITY:

Complexity is a very important characteristic in Hi-Tech modernism (HTM) because it is what determines it from other forms of design. The design movement before HTM was minimalism. This involved very minimalistic designs, hence the name Minimalism.

HTM can have all the buildings structural parts on the

outside of the building, where they can be seen. Walls or roofs usually hide these parts in most other design eras.

With the lack of walls and roofs because the inner parts of the building needing to be displayed there is a lack of structural support. The walls and roofs of a building usually supply this support. The architects then need to be able to use these functional parts to provide support to the building as well as an elegant and neat appearance.



NITIAL

### STEEL:

Steel has strongly influenced this design movement. Steel brings to aspects to the table, strength and appearance. Steel is stronger than most over metals. It is not only sturdy but can be shaped and molded into preferable shapes and sizes malleable.

This is similar to other metals but what really separates from the rest is its appearance. Steel has a very shiny appearance, which is very attractive to look at. This therefore allows it to be molded into the desired shape while offering great support and appearance.



As technology develops so do the ways in which we use it. This is why and how HTM gets its name. Technology lets our designs and structures to become more Hi-Tech because it is easy to do which was once hard to do. A perfect example of this is prefabricated materials such as concrete supports. This can

allow the architect to incorporate into his design, features which would usually need to made on sight. Technology allows him to use these elements without them having to be built on sight. They are prefabricated at another location. This is both time and cost effective. It allows more money to spent in other important areas of the project which in turn makes the concept much more Hi-Tech because there is more money in the pot than in previous eras.

### KEY DESIGNERS IN THIS MOVEMENT:



#### DAVID AJAYE

- BUILDINGS INCLUDE: ELEKTRA HOUSE
- DIRTY HOUSE
- WHITECHAPEL



## SHIGERU BAN

- BUILDINGS INCLUDE: NOMADIC MUSEUM
- TAKATORI CATHOLIC CHURCH CENTRE POMPIDOU-METZ



## BUILDINGS INCLUDE:

CITY OF ARTS AND SCIENCES AUDITORIO DE TENERIFE

O GARE DE LYON SAINT-EXUPÉRY



### GIGON

- BUILDINGS INCLUDE: HOUSING COMPLEX BRUNNENHOF
- ROAD TRANSPORT HALL
  ARCHAEOLOGICAL MUSEUM AND PARC KALKRIESES



DEAS

METERIA

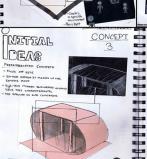
### SEAN GODSELL

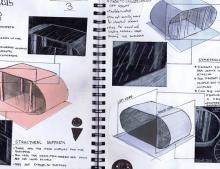
- BUILDINGS INCLUDE:
- GLENBURN HOUSE
- ST ANDREWS BEACH HOUSE











CLASS Wills

REFABRICATION:



KEY DESIGNERS IN THIS MOVEMENT

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SHIGERU BAN

SANTIAGO CALATRAVA

AN GODSELL

REFABRICATION:

KEY DESIGNERS IN THIS MOVEMENT:

HIGERU BAN

SANTIAGO CALATRAVA

FAN GODSELL

# MOVEMENT INFLUENCES

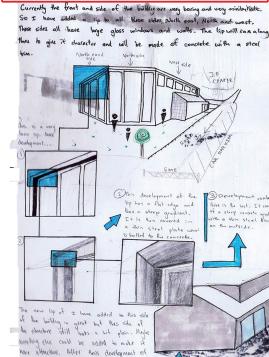
The movement of Hi-Tech Modernism has been around for a few decades. The earliest form of high tech modernism was just after World War II in Chicago, USA. The style was called the 'Second Chicago School'. At this time there were many buildings with this particular style being constructed. The style involves the use of framed tubes that are concreted into the foundation. These tubes consist of four or three inter connected columns. These support the building from horizontal forces shut as wind. The whole building is anchored to these central columns and can be seen throughout the whole structure. This is where HTM first was established because these structural features of the building would usually be hidden but in this style they are displayed for visual preferences.

Also most of this building was created from both steel and glass. This is to of the biggest characteristics of the High Tech Modernism era. Most of the buildings exterior is a dark tinted glass. While the structural supports of the building are mostly made up of steel girders and beams.

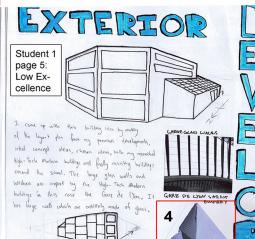


Another important influence on the High-Tech Modernism movement was the Space-Race. This was the race between Russia and the United States of America for supreme space exploration. When USA landed the first man on the moon "Neil Armstrong" it was said to be the climax. With these high technological steps came people's imagination for using it to construct other earth bound structures. This technology was invested into the development of technology used to create and start the movement of High-Tech modernism





the sout side of the building is needed



the marrent though the builting looks very

There are no features exceed prefabilitated concrete that will structure the evall. Windows both high and low would prove to be pointless because be amount of light that would come in would be very minimal.

NZ@A Intended for teacher use only



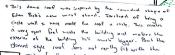
metals buils attached looks in wen more interceting the the one before These add character to the whole Here and characters to make the a high design and names it make the can high leigh moderni building. This is because of two factors. One being the major steel prits for architectural through steel prits for architectural through sell for the visual effects around! he second part live of that it was in it is a fact to the second that it was in it is a fact to the of it will not to the of it will not to the other with other with other metallics, which is a contract to the will not it is the will not to the other metallics.

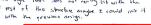


DOME ROOF Steel structure to fithe buildings extended past the buildings extensor

S.K.C. Logo could be added here...

3







+ My new development looks much more moder than he done roof model. It also keeps the bel hart it to by mode as well as a white.

If consists of there has places of on thereter contests on the house of the contest to the house of the contest to the house of the contest to the house of the contest on the house of the contest of the contest on the house of the contest of

Exterior windows for interior natural lighting PREFABRICA CONCRETE

> been very ampratica So I have gone with the traditional stairs idea, but added a High-tech modern thist. It will be entirely made of smooth concrete.

single coloumn star idea. It would ha

1) Steel guiders will be placed diagonally in each of the six holes try will then be bulled to a square steel plate. This will to be liked to a space creek plate. Throwill provide a great deal of Struckal Supports or creek as adding or would . These "will be growtheast" done throughout each agreemen. Blso du buy throw the support of the control work on the a window. This design was used in the Carel bypon.

he inserted.

The west wall of the gallary

was previously just a plain

wall made of concrete. I am

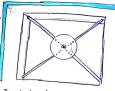
now developing this by putting

in structual supports that me usually not seen in other

crais apart Gom High-Tech Modern. They will be inserted into cavities in the concrete wall. My

next task is to develop these

further. Maybe a high wordow could



This development involves a circliar steel plate? disc that bolts together to steel poles together. It provides structual enhancement with a nice visit appearance. The excular element of the disc and pater is inspired by Eden Philk. It may be a bit to execular formy building.

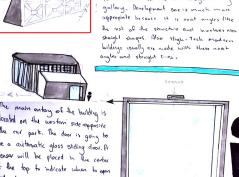


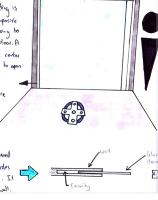
+ I have decided to go with the first development. The second one involved to many spherered shapes and doosn't At in with the ownell image of my gallary. Development one: s much more



The main entery of the building is located on the western side apposite the cur park. The door is going to be a automatic glass sliding door. A sensor will be placed in the center of the top to indicate when to open and close.

But there is a problem They were going to be two glass panels that slide away from one onother, but due to the lack of wall space on the right hand size it had to be turned into a single panel which slides to the left when it opens. It does this by a cavity in the wall







+ The metal blinds which cover most sides of the walls with windows will be connected by little arms which are attached into the flame.

This is a quick sketch of the back of the black or added to the walls and

windows at the moment I looks very plain and being. Hopefully adding there blinds with it was a character and

Make it hole more like a High-

Tech modern for building. Because It has started to look like a very minibative building.

METAL DUTHOS

GARE DE LYON SMINTEUXPE



WARRE matel blinds corp. the two glass walls and windows . Three are

actually structual bears to strugther the outside

frome of the building -

to bottom and provent the

from the sum.

Are write to become fidel

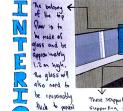
. "he tengthis side from top

Then also are a wise

The blinds will limit the amount of sun light entering through the windows This is needed to prevent the art from Goding in the light.



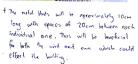
The blands should reduce the amount of weathering of the building. This will be reduced by the blads. The wind is heavy because it is Ennelled Maybe the estre to the morth of the building.



These scapport colouns are what will be supporting the glass bolcomy. The will be made of hollow steel tubing. It for breating



PLACED ON BOTH STORIES ON THE WALLS, Also H large space in the middle allow! for tall and wide Statues to be exh ibited inside the building.





I haved removed the windows from the South side. They would not link to any port,

I have had to 6 divide the third window into two sections This is because of the ball / effice wall. My reception area was to simply and pooring belief so I idded on eve fr function and to spice It up a bil!