Common BIM Roles and their Responsibilities

By:

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Agenda

• Major BIM Roles and Their Project Integration
• Difference Between BIM Professionals and BIM Users
• Main Responsibilities of BIM Professionals
• Conclusion
Major BIM Roles and Their Project Integration
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Radio Frequency Identification tags “RFID”
• Who are the BIM Users?
Difference Between BIM Professionals and BIM Users

Available online:
Difference Between BIM Professionals and BIM Users

• Who are the BIM professionals?
Difference Between BIM Professionals and BIM Users

BIM Modeler
BIM Analyst

Difference Between BIM Professionals and BIM Users

Available online:
http://online-behavior.com
Difference Between BIM Professionals and BIM Users

BIM Application Developer

/ or BIM Software Developer

Available online:
http://steventsen.g.wordpress.com/2012/01/22/software-developer-vs-programmer/
Difference Between BIM Professionals and BIM Users

Modeling Specialist

Available online: http://georgiatechcomputerscience.com/computer-diagnostic-freeware//
Difference Between BIM Professionals and BIM Users

BIM Facilitator

Available online:
Difference Between BIM Professionals and BIM Users

i’m a consulting consultant...
i can help you with consulting.
here’s my card... all the consulting consultants agree
i’m the best

BIM Consultant

Available online:
http://blog.twofoot-tenfoot.com/2010/12/12/consulting-consultants/
Difference Between BIM Professionals and BIM Users

BIM Researcher

Available online:
Difference Between BIM Professionals and BIM Users

BIM Manager

Available online:
Main Responsibilities of
BIM Professionals

1. BIM Modeller
   - The Functions of a BIM Modeller are to create and develop and to extract 2D documentations from Models.
   - BIM Modeller can also be called BIM Operator.

2. BIM Analyst
   - The Function of the BIM Analyst is to perform analyses and simulations based on the BIM Model
     - Building performance analysis
     - circulation
     - Security analysis
     - Etc...

Main Responsibilities of BIM Professionals

3. BIM Application Developer or BIM Software Developer
   - A BIM Application Developer develops and customizes software to support integration and the BIM process from small plug-ins to BIM servers.

4. Modeling Specialist
   - Modeling Specialist is an IT professional who contributes, along with experts in different areas of the AEC/FM industry, to the IFC standard, form initial requirement of IFC extensions, and have to be familiar with the IFC data structure and modeling concepts.
   - Also responsible for mapping of Exchange Requirements.

Main Responsibilities of BIM Professionals

5. BIM Facilitator

The role of a BIM Facilitator is to assist other professionals, not yet skilled in operating BIM software, in visualizing the model information.

- Assists the engineer’s work to communicate with foramen or Contractors
- Also assists and helps facility managers to extract information form BIM Models for:
  - Asset management
  - Space planning
  - Maintenance
  - Scheduling

6. BIM Consultant

Guides project designers, developer and builders in the BIM implementation for large and medium sized companies that have adopted BIM and don’t have experienced BIM expert/s

Main Responsibilities of BIM Professionals

There may be three types of BIM Consultant:

1. Strategic Consultant
   - Generates strategies that are typically medium to long term and are based on a vision of achievement.

2. Functional Consultant
   - Generate action plans in accordance with these strategies

3. Operational Consultant
   - He actually perform process of implementation
     - Operational Consultants are hired by a software supplier to develop implementation plans for their BIM products.

Main Responsibilities of BIM Professionals

7. BIM Researcher

He / she the expert that work in universities, research institutes or governmental organizations, teaches, coordinates and develops research on BIM. The BIM researchers are the leader in the creation of new knowledge to benefit the industry, the community and the environment. Many of BIM Researchers acts as BIM Educators.

Main Responsibilities of BIM Professionals

8. BIM Manager

- The main function of a BIM Manager is to manage people in the implementation and/or maintenance of the BIM process.
- A BIM manager also sets design templates
- Coordinates the integration of entity models
- Coordinates the access to the model
- Guide the team in decision making
- Examines the goals of the BIM process
- Evaluates the goals of the BIM process
- Develops a plan to fit the demands and desires of customers
- Etc...

There are more than one type of BIM managers:

1. Project Model Manager. Modeling Manager or Model Manager
2. BIM Manager at Design Firms or Chief BIM-Officer
3. BIM Manager at General Construction and Subcontractor Firms- BIM Construction Officer

Conclusion

“When revolutions occur, traditional means of operation are no longer effective. Traditional cultures become unstable and new practices are explored to address the instability. Some social units will succeed and become successful, while others will not adapt and fade away.” [1]

Charles Eastman

The revolution is here, and that revolution is BIM \cite{1}

\cite{1} Joe Harris, Integration of BIM and Business Strategy. Available online: 
http://www.wbdg.org/pdfs/integratebim_harris.pdf