

USE BIM TO CONSTRUCT ELECTRONIC RESUME SYSTEM FOR BUILDING PROJECT

蕭炎泉, 王明德, 林祺桓, 郭哲瑜

Construction Management

Architecture

ycshiau@chu.edu.tw

Abstract

The main function of Building Information Modeling is to establish the common internal project-related information for each stage for the whole life cycle of the building. User can fetch and store related information in this integrated platform. The data input by former user can be fetched by other relevant personnel to improve project quality, save time, as well as reduce costs and errors. The BIM system can precisely display visual result to achieve better communication. This can help engineers to perform better control to cost, schedule, and environmental impact. It can effectively display design details to engineers, builders and owners to improve communication effort to the whole team. This study uses BIM, ER Model, ASP.net, RFID, Database and Windows environment to develop

“Electronic Building Construction Resume System” . All projects are divided into Build, Floor, and Room units and assigned an RFID tag. All related data such as owner, design engineers, contractors, and inspectors are linked to this unique ID. Related documents such as specifications, drawings, pictures, films, checking list, and daily report are integrated and can be retrieved through ID. When the tag is detected by reader, one can connect to server and fetch related information to identify the responsibility for possible construction de-fects. This will push all participants realize the duties which are assigned to the project. In maintenance stage of the building, all construction details for each component can be fetched to verify the responsibility.

Keyword : Database, ER Model, Construction Resume, RFID, BIM