

建築工程施工階段電子履歷系統之建置

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摘要

With the advancement in information technology and personal digital mobile device upgrade, RFID technology is also increasingly common use of the situation, but for the life cycle of a more lengthy construction, the lack of a real-time access to historical data to create information structures system, also the concept of BIM is building of all life cycle Integrates, the information can be exchange and share use this characteristic, this study combines RFID and building information model to provide users to wirelessly Wang Road links to be extracted Server related information and help in the future for the building to improve understanding of each unit and the related responsibility of the construction process tracking.

This study will use BIM, Web-base, RFID, Wireless Network, ER Model, Database and Information Technology environment to develop “Electronic Building Construction Resume System”. This system includes some handy modules such as “Basic Data Management”, “Common Data Management”, “Project Management”, and “Maintenance Management”. All projects are divided into Build, Floor, and Room units and assigned an RFID tag. All related data such as working groups, sub-contractors, inspectors, and engineers are linked into 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 and can connect to server through wireless communication and inquire related information to identify the responsibility for some construction defects. This will make all workers 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.

關鍵字：Database, ER Model, Construction Resume, RFID, BIM