Project #15405 – Near Miss Information Visualization Application for BIM

http://utca.eng.ua.edu/research/projects/?id=15405

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The primary objective of this research is to create a tool functional within Building Information Modeling (BIM) to visualize and analyze near miss information. Sub objectives of this research will include creating algorithms and user-interfaces for safety managers to navigate and analyze reported near miss data. Based on the findings, the research team will also identify and assemble a set of best practices for visualizing safety information for construction projects. An implementation guide for integrating safety information into BIM will also be developed based on research findings.

The proposed research contributes to improving the capabilities of safety information visualization for decisions made by management personnel. By enabling construction safety managers to input, review and analyze safety information (specifically near misses) into an existing project BIM, hazardous situations and set of conditions can be identified and mitigated before an injury, illness or fatality occurs.

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Sponsor Organization
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- Safety and Human Factors