UNIVERSITI TEKNOLOGI MARA
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ELECTRIC GENERATOR HI-TECH FLOOR

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Innovation project report submitted in partial fulfilment of the requirements for the degree of
Bachelor of Science (Hons.) Building Construction Technology

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AUTHOR'S DECLARATION

I declare that the work in this innovation project report was carried out in accordance with the regulations of Universiti Teknologi MARA. It is original and is the results of my own work, unless otherwise indicated or acknowledged as referenced work. This topic has not been submitted to any other academic institution or non-academic institution for any degree or qualification

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ABSTRACT

Nowadays, various technologies have been designed and created for the benefit of the users. Many sectors were contributed in develop new technology for their own product. Construction industry also one of the industries that follow the trend. By chance, new technology were helped construction industries in many aspects. In Sustainable Development Goal's, number 9 stated Industry, Innovation, and Infrastructure where a green building concept are considered during design and construct a building. However, creating new renewable energy also a technology which contributed to reach goals in SDG. This case studies were expected to study the common issues and problems occur for floor, to propose the suitable floor finishes which can generate energy and to suggest the marketability potential of the innovation product. Through all the studies in previous research and data analysis, innovation of "Electric Generator Hi-Tech Floor" are created. A floor was designed to be a multi-function floor instead of carry load. Main component named Piezoelectric censor is a main component in creating floor innovation. However, the storyline of research process and design has been recorded. Software SketchUp are used to illustrate the application of "Electric Generator Hi-Tech Floor".

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