

## **Abstract**

Paintbrush is one of the most important tools in the field of architectural drafting technology. This early use of design tools in new product development has a significant impact on competitive business performance. However, the implementation by companies is not always successful. This research involved implementing to enhance the development of new design tools to aid successful industrial implementation. The study was to design, develop, and evaluate Interchangeable Brush Bristles with Pencil. It also shows that evaluation includes design, fabrication, functionality, and versatility. An evaluation questionnaire was used to gather relevant data, Data surveying through questionnaires was used to collect, determine, and help ensure that the development project is versatile, valuable, and vital to the Field. The type of material used in this analysis was melina wood, which was selected as the paintbrush handle. Such as, fabricate, design, and evaluate the now features Interchangeable Brush Bristles with Pencil. Produce the ability to interchange brush heads with a simple thread and pin mechanism. The design of the product meets the required standard of the industry based on the evaluation of experts from the drafting students, other students from different courses, and instructors. In general, based on the results of the final evaluation of the product conducted by the researchers, the product is highly acceptable. It is recommended that the product be fabricated on a machine to improve the consistency of workmanship.