

OPTIMIAZTION DESIGN PROCESS for SMART GLOVE ELECTRONIC PRODUCT

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This research focuses on the optimization process of connecting a glove sensor device used in virtual reality (VR) to human with PC through product design method. In order to construct the cooperation between the members of design team and engineers, the purpose of this research project is to develop a optimization process which combines the process of engineering design and industrial design for creating a smart communication device. Since the engineering design is to turn a concept into an actual device or technique and to make a design to be applicable, the project created an innovation design process for the electronic product. The process contain four main procedures: problem analysis, concept design, design applicable and make into a product, detail design. To understand the capability of engineering and industrial design processes, this study performed actual operation to investigate the condition and outcome of each stage. Finally, according to the electronic component product and the conformation of process result, the design may apply to the system of sign language recognition to inspect the efficiency of the VR product. The whole process conformation required the cooperation among the members of both engineering and industrial design, to bring up the possibility for turning electronic component devices into real products.

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