



Title : Jewelry Design Inspired by the Life of Cycle of Butterflies and Moths

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ABSTRACT

Butterflies and moths serve as profound symbols of lightness, gentleness, and natural transformation. This design project explores these symbolic meanings by focusing on the concept of "Metamorphosis". The primary objective is to create two distinct collections of the "Butterfly" and "Moth" sets, each meticulously crafted to narrate the four transformative stages of their life cycle: the egg, larva, pupa, and the fully matured adult. The narrative is told through a total of eight unique pieces. Each set consists of a ring, earrings, a bracelet, and a brooch, where every individual item represents one specific stage of the insect's growth. While the "Butterfly" collection utilises vibrant aesthetics to symbolise positive energy and hope, the "Moth" series captures a more mysterious and gentle allure, highlighting the contrast between "Time, Light, and Development". The methodology integrates Computer-Aided Design (CAD) with sustainable technology. The concepts are directly translated into 3D models using Rhino Gold software to ensure precision in intricate details. To uphold environmental responsibility, physical prototypes are produced using 3D printing technology with biodegradable PLA filament. These CAD-generated models serve to verify the structural integrity and technical feasibility of the designs, ensuring they can be successfully transitioned into functional adornments. The project concludes with an evaluation phase, utilising surveys collected from a minimum of 100 participants, specifically targeting Chiang Mai University students with a demonstrated interest in the field. This process aims to assess the effectiveness of the visual storytelling, the cohesion of the sets, and overall user satisfaction. By blending biological science with contemporary design, this study demonstrates how wearable art can transcend decoration to become a meaningful medium for storytelling.

Keywords: Design, Metamorphosis, Computer-Aided Design (CAD), Rhino Gold, 3D Printing, Sustainable Materials (PLA), Visual Storytelling

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