

Research on T-Shirt Visual Creation

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Abstract—In this article, a visual creative design was produced for T-Shirts to enable students who were used to creating on paper to produce their work using computer software, then export the diagram and transfer it to a T-shirt using a sublimation heat press machine. The students also gave an oral presentation of their creative ideas and used the Internet as a marketing channel to sell their creations. The teacher guided the students on the actual production of their products for personal use, as giveaways, or for sale.

Keywords—*T-shirt, visual creation, sublimation heat press machine.*

I. INTRODUCTION

T-Shirts are easy and comfortable to wear. They are the favorite clothing of students during summer. This article uses T-Shirt visual design as the theme for its design application to encourage students to create according to their favorite items, draw using graphics software instead of paper, and learn to operate a sublimation heat press machine (figure 1).

The teacher discussed with the students the contents of their design, made modifications, and taught them how to operate the machine as well as the proper temperature and time settings during the procedure. Through this, their creations on paper were transformed and produced as actual products that can be used for personal use, given as gifts, or sold commercially. This can improve the students' interest in learning and assist in producing better learning outcomes.

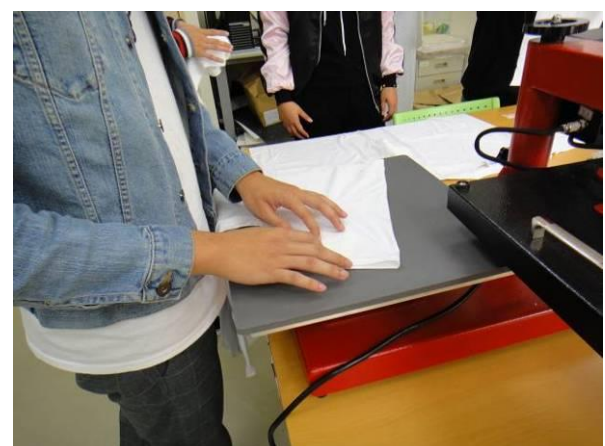


Fig. 1.

II. LITERATURE REVIEW

This paper reports on novel ventilation design in sports T-shirt, which combines spacer and mesh structure, and experimental evidence on the advantages of design in improving thermal comfort [3]. It also proposed improvement by changing the T-Shirt material [5] to give the wearer a cooler feeling [2]. Furthermore, new materials can be used for T-Shirt manufacturing to reduce costs and improve market competitiveness [1]. Thin T-Shirts could also be produced to provide riders less wind resistance [4].

From the literature review, it was observed that research regarding T-Shirts focuses on function reinforcement or material improvement. It seems that there were no studies regarding T-Shirt visual design.

III. CREATIVE DESIGN

Due to low birth-rate, teachers are able to provide students with better quality and more creative teaching method to attract learning. Traditional ideas need to be revolutionized, and various equipment for creative design must also advance with the times. In this article, T-Shirt sublimation printing was used as the theme of the students' practical creation for the purpose of letting them produce their works on PC software. Their designs were then printed on transfer paper and printed on T-shirts by using a sublimation heat press machine.

The teacher helped the students set up a micro-enterprise, for this has always been the direction of commercial design's continuous efforts. It is anticipated that students would learn to create on other media besides paper and be able to use various equipment in order to transform their creations into commercial products that can be supplied to interested buyers. The device is simple to operate, and the students liked this method of creative expression.

IV. DESIGN RESULTS

This article presented T-Shirts with better visual creation. The flying squirrel in figure 2 is a popular pet who is lively and energetic. The mystical cat in figure 3 is a great Kung Fu fighter, but he is most afraid of mice. In figure 4, a shark is hanging around one's neck, showing the illusion of biting people. Figure 5 shows a pony logo that represents oneself, whereas in figure 6 is a beauty-loving fat cat. The beautiful deer head in figure 7 is a symbol of luck. In figure 8 is a colorful butterfly, and figure 9 depicts a singing frog. Figure 10 shows a whale that likes his own figure. The stone man in figure 11 walks like a crab, shoving and bumping. The duck in figure 12 is cool. Figure 13 is a singing robot.

The snowman logo in figure 14 shows the 4th time of playing in the snow. Lou, the flying rabbit in figure 15 is clever and agile. The pigs joined together in figure 16 are happy at play. The egg yolk squirrel in figure 17 loves to stir up trouble. Figure 18 shows a picture-taking robot. Figure 19 depicts an industrious cow that loves beauty. The fat squirrel in figure 20 is a household pet. Figure 21 shows a reminiscence of the past. Figure 22 shows a super fat man with difficulty in walking. Figure 23 shows a knotted hungry cat. Figure

24 is a portrait of a silent girl, while figure 25 shows a charming mermaid.



Fig. 2.



Fig. 3.



Fig. 4.





Fig. 5.



Fig. 9.



Fig. 6.



Fig. 10.



Fig. 7.



Fig. 11.



Fig. 8.



Fig. 12.



Fig. 13.



Fig. 15.



Fig. 14.



Fig. 16.



Fig. 17.



Fig. 18.



Fig. 19.



Fig. 20.



Fig. 21.



Fig. 22.



Fig. 23.



Fig. 24.



Fig. 25.

V. CONCLUSIONS

In general, the results for the innovative research and development of this study are summarized and illustrated below:

- (1) The students were curious about transfer printing T-Shirts. This method aroused their interests and helped bring about learning effectiveness.
- (2) After the making a visual design for the T-Shirt, the students have to wear their creations. Therefore, to show a sense of design, they took the creative process seriously.

- (3) The teacher guided the students in setting up a micro-enterprise to turn their creations into actual commercial products that can be sold. This can increase their interest in learning and motivation.
- (4) The settings for the temperature, time, and paper type of the sublimation heat press machine must be chosen more accurate so as not to affect the transfer quality and prevent flaking.

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