

Va401 | Project Proposal

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Project definition:

The project is about making electronically augmented printed book based on an illustration of a song.

Objectives and Goals:

- The project will raise under six years old children's interest in printed books instead of e-books.
- The project will make a story follow able for a group of age that do not know literacy with the aid of a song.
- The project makes me learn use Ardiuno and improve myself in illustration field.

Target Audience/ User:

In this project, children whose ages are between 3 and 6 are my target audience. I choose these ages because of two reasons. According to pedagogues, young children's learning modes require paper books instead of e-books because of cognitive issue and tactile learning and the second reason is that children in these ages can not follow the story without an adult and I want to solve this problem.

Background information:

I like my books to be made of paper but nowadays they are not in demand because of electronic books. Especially children do not want read printed books because they do not find them interesting because of new media. I asked my 5 years old nephew whether he likes printed books or not and he answered not at all; then when I asked how would you like them he answered if I can get into the book I would like them. Then I decided to make my graduation project on that problem because as I said above, according to

pedagogues, young children's learning modes require paper books instead of e-books because of cognitive issue and tactile learning. If I summarize these two concepts, children learn in stages so learning to read happens in stages too. The child must first understand that the printed thing they are being shown contains words, which represent language. Apart of that, children like and need to explore and learn through touch, which means tactile learning and they should learn reading as interacting with the book as a physical object. So for the younger child, there will always be a market for paper books and to raise their interest to printed book, I thought to make it as much as interesting as e-books. Firstly, I started to do some researches about illustrative books and I came across with some illustrations which integrated with songs and I found them very enjoyable and dynamic then I realized that I can also access more children at different ages by using a song because under 6 years old children do not know literacy and they can easily follow the story by listening the song so I decided to make my story based on a song lyric.

This project can be seen as a solution to mainly two problems. The first one is to save printed books being uninterested for children and the second one is to make a book follow able without an adult for a group of age who do not know literacy.

For this project my challenge is to be required to eliminate all other mediums than can be used with printed electronics and limited myself with only paper as a medium because of my aim and target user.

During the process, I will use vector based programs especially Illustrator to make illustrations and Arduino to make them synchronized with song. In this way my gain out of this project will be to improve myself in illustration field while developing myself in book design and learn to use Arduino.

Detailed Project Description:

In this project, static illustrations will turn into dynamic illustrations for a child while following the song and the aid of LEDs that lightens illustrations according to their place in the song. They can listen all the song without any

cuts as they are turning the pages. I will replace an Arduino Nano with MP3 player add-on in the book. If they cannot turn the page while illustrations finished, song will slow down.

Required know-how and resources:

- Software:
- Illustrator
- Arduino

Difficulties & risks:

-I have never learned anything about coding and Arduino until this year so the most difficult part of this project for me is to learn software.

-I am familiar with illustration and book design but the difficulty of this project is making an illusion as illustrations move. For that illusion I should make them dynamic and totally appropriate for the lyrics, which means painting a song and I have never do this before.

-Another risky point is to make pages synchronized with song. It seems hard to regulate the coding as the song slow down when a child do not turn the page and to make page recognition.

Phases of the project:

My phases of the project will be composed of four parts. First one is, to find a suitable song that is appropriate for energetic illustrations and my target audience. Second one is, to make pedagogical research on child books and illustrations. Third one is, to design the book and finish the illustrations. Final one is to learn the software and set up the project.

Criteria of success:

- If I can finish the project within the time limit.
- If this project makes a printed book as interesting as an e-books and raise a child interest to the printed book.
- If this project makes a story follow able for a child without an adult even if she or he does not know literacy.

- If the song and illustrations are suitable for the target audience.
- If illustrations can make an illusion as they move.
- If song continues synchronized with pages and illustrations with the appropriate use of Arduino.