

螢光舞 (Light Dance)



Director: Tsang-Yung Wu

Coder: Chih-Wei Fang

Art Instructor: 陳柏瑞、許傑盛

Performer: Tsang-Yung Wu (吳倉永)、Chih-Wei Fang (方致偉)、Po-Jui Chen (陳柏瑞)、Chang-Shao Shen (沈昶劭)、Wen-Kuan Chang (張問寬)、Jieh-Sheng Hsu (許傑盛)、Hao Luo (羅浩)、Yi-Lun Wang (王奕倫)

Open Source: B02 Kai-Chi Huang (黃凱琪)、林圓方

Video: [GoogleDriveLink](#)

Github: [OpenSourceLink](#)

Support: B04 NTUEE Student Association

I. Introduction

At first, it was actually the Event General Coordinator, who gave me the advice. He pasted me a link which was the "America's Got Talent's" show of light dance([Youtube link](#)). It was an inspiration to me, asking m whether we could come up with such a cool and amazing "light dance show" like the show and like our seniors did before. And I asked Yuan-fang senior about the details of the show they did before, giving a spark of this amazing journey. The whole motivation is - we want to pass this unique show which belongs to our EE department down to our junior as a convention that does our proud!

II. Requirements

1. Hardware Components:

Development Board: "Linkit Smart 7688" serves as our core to control the EL wire.

Electronic Components: "PCA9685" serves as PWM controller to create fade out or fade in effect.

"ULN2803" servers as a current amplifier to make EL wire light intensity stronger and steadier.

2. Suits: A denim jacket, black pants, a cowboy hat, a mask, all sewed by fishing line with EL wire on it.

