



**POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF ENGINEERING
COMPUTER ENGINEERING DEPARTMENT**



TOTAL QUALITY IN COMPUTER ENGINEERING

Whistle Flashlight

**TECHNICAL AND FUNCTIONAL
DOCUMENT**

Section BSCOE 5-1D

Group No _

NO	MEMBERS (Alphabetical Order)	CRITERIA	GRADE
1	Cagomoc Niña Jaira Lael	Document Format Consistency (10%)	
2	Calilung, Kristal		
3	Kitts, Johndell	Complete TS Design, Components) (20%)	
4	Macatangay senon jayson		
5	Tan, Frederick	Complete TS Test Parameters and Procedures (20)	
6			
7		Complete FS on Procedures and Manuals) (10%)	
8			
9		Final Assembly Quality (40%)	
10			
FINAL GRADE			

Instructor

DR. LUTZ REYES

<YEAR>

1. CHANGE RECORD:

[illegible]

TECHNICAL SPECIFICATION DOCUMENT

2. INDIVIDUAL COMPONENTS:

2.1. Description:

Whistle flashlight is a must-have product for everyone. It is easy to use and carry and this will help people in times of disaster by sending distress signals far away using the flashlight or distress sounds using a whistle.

2.2. Features:

It has a built in SOS distress signal
It is light and portable
It comes in many colors

2.3. Applications:

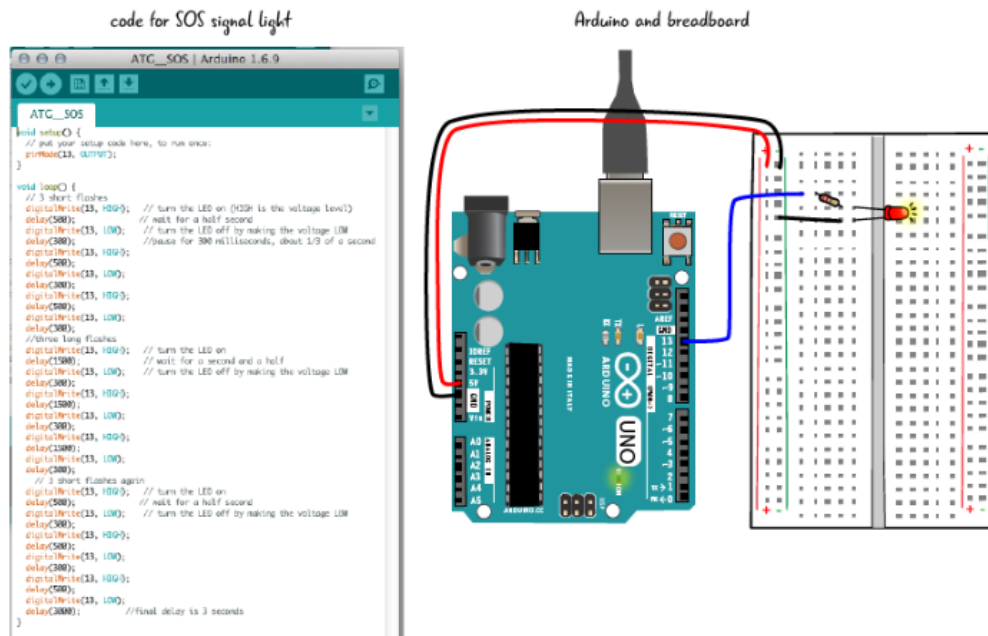
A survival tool for emergencies and disasters

2.4. Components/Device Information:

Flashlight
Whistle
SOS distress signal Circuitry

3. DIAGRAMS:

3.1. Schematic Diagrams:



3.2. Drawings and Wireframes:



4. COMPONENTS USED:

4.1. Detailed Description:

4.2. Overview:

4.3. Feature Description:

4.3.1. Product Technical Spec

4.3.2. Product Dimension:

4.3.2.1. Top View:

4.3.2.2. Side View:

4.3.2.3. Internal View:

4.3.3. Printed Circuit Board Side View:

4.3.4. Screws - Side and Top View:

4.3.5. Components Technical Specification:

4.3.6. Detailed Step-by-Step Procedure:

4.3.6.1. Assembly Instruction:

4.3.6.2. Test instructions, Parameters and process for quality:

4.3.7. Time and Motion Activities:

4.3.8. Flow Chart:

4.3.9. Quality Tools Used for Defect Monitoring

4.3.9.1. Defect List or Check List Summary

4.3.9.2. Fishbone Analysis for all Defects

FUNCTIONAL SPECIFICATION DOCUMENT

5. EXTERNAL DETAILED DRAWING OF THE PRODUCT WITH PARTS:

6. FUNCTIONS OF EACH PARTS:

7. STEP BY STEP PROCEDURE ON HOW TO USE THE PRODUCT:

8. INDICATE MAINTENANCE PROCEDURES (IF ANY)

9. SIGN OFF: *(Signature of key sponsors, subject matter expert heads)*

Name	Position	Signature	Date Signed