

Standards and constraints

The following tables include the IEEE standards utilized in this project:

CODE	Communications
181	IEEE standard on Transitions, Pulses, and Related Waveforms
194	IEEE standard pulse Terms and Definitions
211	IEEE standard Definitions of Terms for Radio Wave Propagation
1394	Communications and isynchronous real- time data transfer.

CODE	Components, Circuits, Devices and Systems
200	IEEE standard Reference Designations for Electrical and Electronics parts and Equipment
255	IEEE standard Letter Symbols Semiconductor Devices
1118.1-1990	IEEE standard for Microcontroller System Serial Control Bus
30	AIEE Definitions and General Standards for Wires and Cables.
33	AIEE standard – Electrical Measuring Instruments
162	IEEE standard Definitions of Terms for Electronic Digital Computers.
108	IEEE Proposed Recommended Guide for Specifications of Electronic Voltmeters

CODE	Health and Safety
C2-2017	IEEE standard Reference Designations for Electrical and Electronics Parts and Equipment.

The following are the constraints those we faced in the project:

- ❖ **Time:** Important constraint was the time. Through continuous meeting, the project Audio transmission through visible light communication was decided. It took at least three to four months to design and develop Audio transmission through visible light communication for specific purpose application.
- ❖ **For the project:** The Software implementation of Audio transmission through visible light communication was finished within three months. The programming part took much time and then it was tested and troubleshooted.
- ❖ **Teamwork:** We have spitted the task among us and managed it to complete in time.
- ❖ **Components:** Ordered some components we did not use it.
- ❖ **Cost:** The price of some components is very high.

A Sample Checklist for Minimum Requirements

Supervisor Name		Dr.Mohammed Farrag	
Project Title		Audio Transmission Through Visible Light Communication	
Student Names (s)		Name: Abdulaziz Khalaf Rajeh / 439800789 Abdullah Ali Saeed / 439800769 Feras Hani Barghash / 439800803	
ITEM*		IMPLEMENTED	
		Yes	No
		Indicate page(s) in the report for yes, cite reason(s) for no**	
Real life problem		✓	
Advisory committee	One from industry		
	From other specializations		
Situation description		✓	
Problem definition		✓	
Open-ended		✓	
Alternative solutions		✓	
Aesthetics		✓	
Specifications and regulations		✓	
Statistics and reliability		✓	
Teamwork		✓	
Professional ethics		✓	
Environmental impact statement			✓