



American International University – Bangladesh

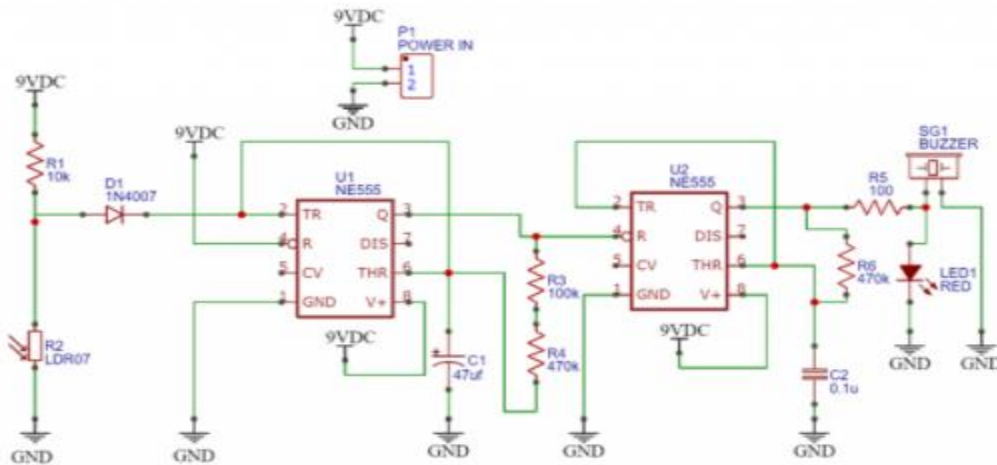
Faculty of Engineering

Department of EEE & CoE

PROJECT PROPOSAL FORM

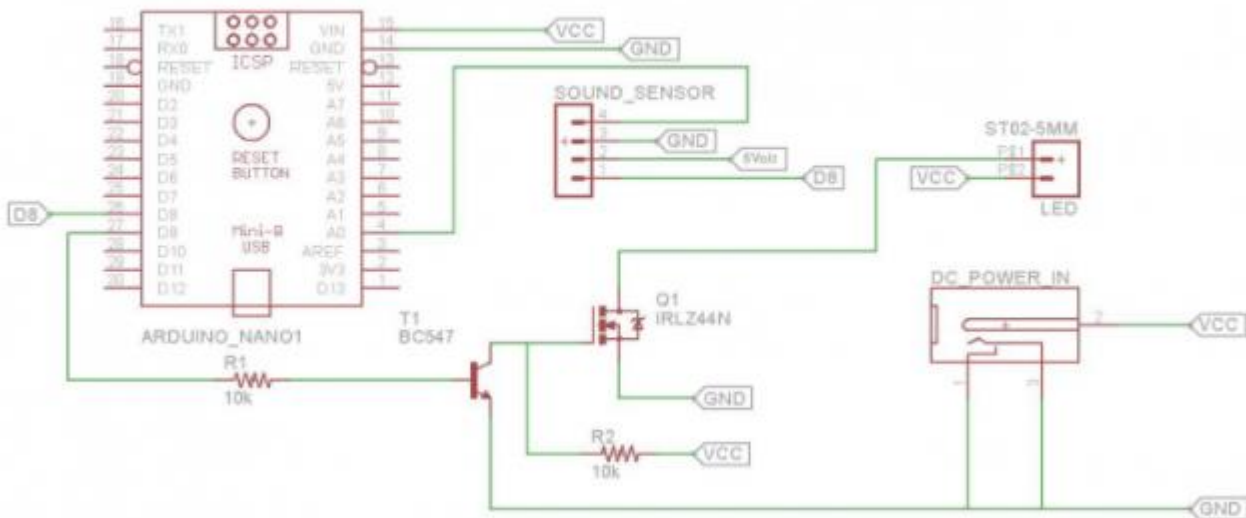
SEMESTER: Spring 2020-2021	GROUP NO:05
PROPOSED PROJECT TITLE: (1) Fridge door alarm ,(2) Music reactive LED circuit, and (3) call detector circuit, on PCB	
PROJECT OUTLINE: (300 WORDS MAX.): Proposal definitely should address these points: (1). Describe how your project meets the requirements of “Complex Engineering Problem”? (2). How are you going to accomplish the project-goal?	
<p>(1)Answer:</p> <p>(a) A Fridge door Alarm is a simple PCB project designed to detect & inform the status of any refrigeration unit’s door: whether its open or not. It produces a monotonous beeping noise if the fridge door is left open for too long by an accident. It’s common use is in refrigerators, Temperature Controlled Freezers & beverage coolers.</p>	

Fridge Door Alarm Circuit



(b) The music reactive led circuit is a simple electronic circuit that responds to the varying rhythmic changes in the intensity level of any musical device. They are a perfect starting point for people completely new to the concept of PCBs. They are usually working for decorative purposes.

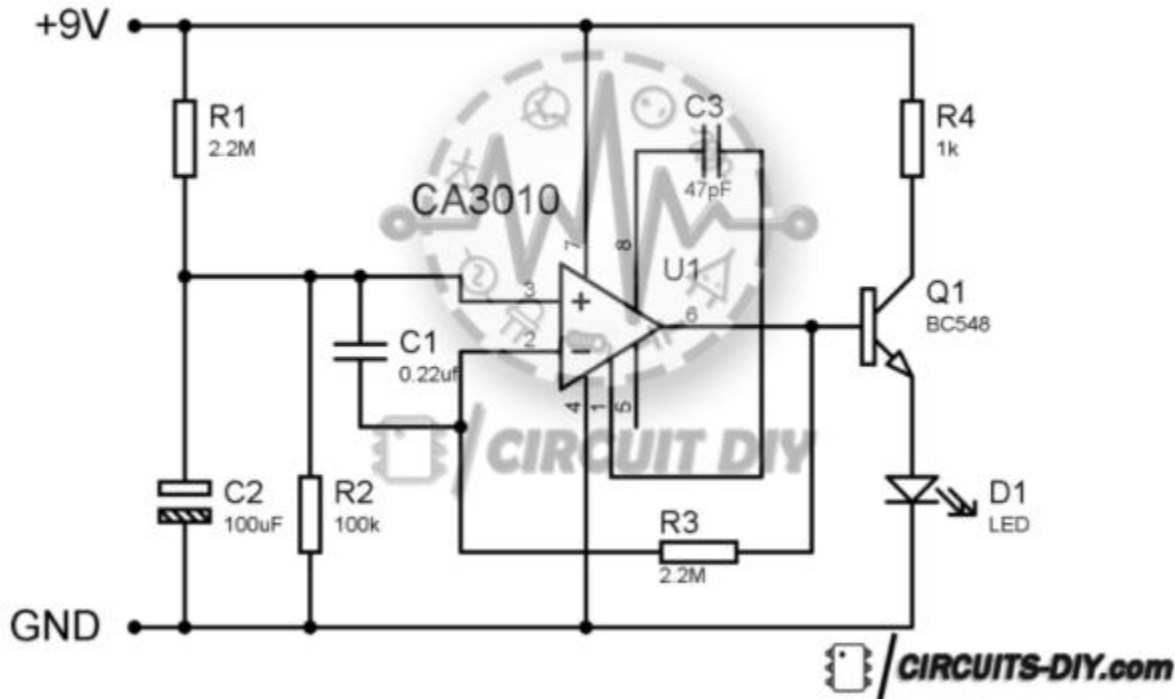
Music Reactive LED Using Arduino Nano



(c) A simple PCB based circuit that can detect the presence of any transmitting RF

mobile device nearby & can provide alerts with respect to it. This PCB circuit generally depicts a Frequency Detector or a Current to Voltage Converter Circuit. It mainly acts as a contingent device against smartphones in places where smartphones shouldn't be brought such as exam halls & military installations.

Mobile Call Detector Circuit



Raja Rashidul Hasan

Faculty'S NAME

DATE

GROUP MEMBERS

(Maximum FOUR students are permitted to carry out a single Project. However, depending on the capability of the students, less number of students may be allowed)

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