Report on

'Cigarette Dispenser'

Ву

Table of Contents:

No.	<u>Topics</u>	Page No.
1.	Introduction:	2
	ObjectiveDescription	
2.	Block Diagram	2
3.	System Requirement Specification : • Hardware Requirement	2
	Software Requirement	3
4.	Working Principle	3
5.	Circuit Connections	3
6.	Results	3

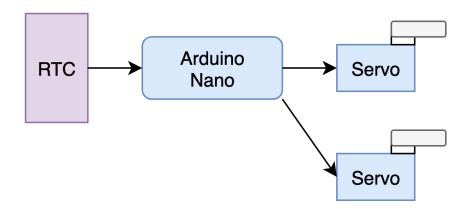
Objective:

To construct a device that can be used to reduce or completely stop a chain smoker from the habit of smoking.

Description:

This project is used to reduce the number of cigarettes a person smokes in a day. This device as for now is implemented for one cigarette when it is switched on, but it can be made to deliver cigarettes at a preset rate at first and it keeps on reducing day by day. This can be achieved by using an rtc and small algorithm. This project does not completely take responsibility for a person to quit smoking as it the freedom of an individual to smoke but without harming other souls.

Block Diagram:



System Requirement Specification

Hardware Requirement:

- Servo x 2
- Arduino Nano
- RTC DS3231 (If you want to develop the project)
- Jumper cables

Software Requirement:

- Arduino IDE
 - o Library: 1. Servo.h

Working Principle:

When the device is switched on, the two servo motors move in a pre-defined path to drop a cigarette from the tray where all the cigarettes are placed. This can be further developed by making the dropping of cigarettes automatically based on the rtc. And then reducing the number of cigarettes day by day. Finally helping the person to completely quit the habit of smoking.

Circuit Connections:

- Connection of Arduino to Servo:
 - o 9 Signal of Servo1
 - o 13 Signal of Servo2
 - o 5v VCC
 - o Gnd Gnd
- Connection of Arduino to RTC DS3231: (OPTIONAL)
 - o A4(SDA) SDA
 - A5(SCL) SCL
 - o 5v Vcc
 - o Gnd Gnd

Result:

The result of the project Cigarette Dispenser is verified and it satisfied all my requirements without any exceptions.

Cigarette Dispenser

