**REQUIREMENTS**

* **High level Requirements**
* ATMEGA 328 microcontroller
* 5v-10v voltage supply
* LED’s
* Push switches
* **Low level Requirements**
* SimulIde
* Codeblocks with Avr Gcc compiler
* Relays
* Resistors
* **SWOT ANALYSIS**
* **Strengths:** 1. It is Easy to use.

2. Automated project for wide application

3. Low cost and compatible

* **Weakness:** 1. Project is about direction control but it is sometimes needed that both direction and speed control are required for wider applications.
* **Opportunities:** It is used at homes, industries, automation,automotive and elevators, Robotics etc.
* **Threats:** NA
* **4 W’S & 1 H**

* WHO: The industries and Automation industries.
* WHAT: It is a Dc motor control system for accurate direction control using AVR.
* WHEN: IT is needed when easy automation is required and for precise direction control and specified applications.
* WHERE: It can be used for automation industry, Easy monitoring at houses etc.
* HOW: Developed using AVR based ATMEGA32 and implemented on SimulIDE.