[**Fingerprint-based ATM system**](https://nevonprojects.com/fingerprint-based-atm-system/)

**MINOR PROJECT REPORT**

***Submitted in partial fulfilment of th*e *requirements for the award of***

# *the degree of*

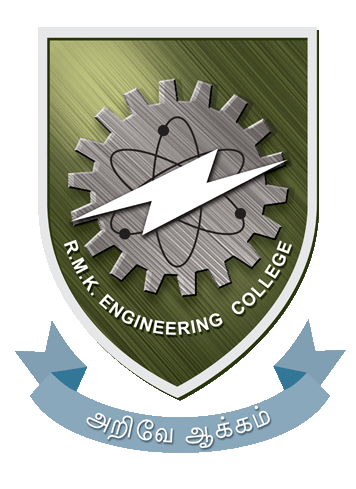
**BACHELOR OF TECHNOLOGY**

**MECHANICAL ENGINEERING**

## *Guided by*

**DR.SATHYAMOORTHY**

**Associate professor**



DEPARTMENT OF MECHANICAL ENGINEERING  **CANDIDATES’ DECLARATION:-**

It is hereby certified that the work which is being presented in the B. Tech Minor Project Report entitled " [Fingerprint-based ATM system](https://nevonprojects.com/fingerprint-based-atm-system/)**"** in partial fulfilment of the requirements for the award of the degree of **Bachelor of Technology** and submitted in the **Department of mechanical engineering**of **R.M.K Engineering college (An Autonomous Institution ) Approved by AICTE , New Delhi & Affiliated to Anna University , Chennai** is an authentic record of our own work carried out in month november 2022 under the guidance of **Dr.sathyamoorthy, Associate Professor .** The matter presented in the B. Tech Major Project Report has not been submitted by us for the award of any other degree of this or any other Institute.

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# **ABSTRACT:-**

### Identification and verification of a person today is a common thing; which may include door-lock system, safe box and vehicle control or even at accessing bank accounts via ATM, etc which is necessary for securing personal information. The conventional methods like ID card verification or signature does not provide perfection and reliability. The systems employed at these places must be fast enough and robust too. Use of the ATM (Automatic Teller Machine) which provides customers with the convenient banknote trading is facing a new challenge to carry on the valid identity to the customer. Since, in conventional identification methods with ATM, criminal cases are increasing making financial losses to customers.

# INTRODUCTION :-

### In todays modern world, autonomous systems play an important role in our day to day life. As the social computerization and automation have drastically increased, it can be seen evidently where the number of ATM centers increases rapidly. Most civilians use ATM’s regularly. A good example can be a financial transaction, ease of money exchange etc. So there exists an important factor called security. The crime rates involved in financial organizations have increased tremendously. Over past few years “90 % of crimes in ATM centers in the form of robbery”. This issue poses a serious threat to both bank management and civilians. Therefore this study proposes a solution to minimize the ATM robbery in real time by means of embedded systems and GSM technology. The main motive of this design is to prevent ATM theft. Many real time incidents around us has been the main motivation of this project.

# Features:-

### Login: –

### User will login to the system using his fingerprint.

### Add Pin Code: –

### User has to scan finger and add pin code in order to do transactions.

### Withdrawal of cash: **–**

### User can withdraw cash by entering the amount he want to withdraw.

### Transfer of Money: –

### User can transfer cash to other accounts by entering the account number he wants to transfer.

### View Balance: –

### User can view balance which is available in his respective account.

### ****View Transaction: –****

### User can view last five transactions.

### Advantages:-

### Fingerprint based ATM System is more secure than ATM card.

### User can make transaction using his fingerprint anywhere and at any time he need not have to carry ATM card.

### Disadvantages:-

### If the User finger pattern has some cut or got damaged the system might not recognize the user.

### Note: -

### The fingerprint scanner is not included with the system, you can buy it separately by clicking on below button.