Literature Survey

Paper tittle : Smart ring for women safety using the Iot

Author Name : Navya R. Sogi, Priya Chatterjiee, Nethea U, Suma V. SMARISA.

Publication : International Conference on Inventive Research in Application(ICIRA), IEEE Xplore, 2018.

Methodology : Raspberry –pi

Raspberry-pi zero w which is flexible and contact as possible with mini connectors and it is a wireless LAN and having bluetooth. Raspberry-pi 0 w supports mini connectors and add easily. Basically, it is a mini computer that has a small operating system linux. Along with that system also have a global positioning system.

The system proposed for the abnormal state of security to the lady. These days, women a confronting a ton of issues in the general public. They need security which doesn't have any provision in it. The system is managed through bluetooth Or wi-fi connection. A raspberry-pi based smart ring for women safety using the Iot devices feature implemented in the ring. They use a raspberry-pi camera, buzzer and button to activate the services.

Paper tittle : ” Security for the internet of things”

Author Name: Christian Dankle Tune

Publication : 2015

Methodology: Eliptic curve digital signature

It performed a high level survey of the state of security to regard in Iot to and all the investigate some of the proposed protocols for Iot devices. This paper enumerated 3 kationey technologies for Iot. They include internet protocol version 6 (ipv6), radio frequency identification (RFID) and wireless sensor network (WSN) . In this paper, communication protocols were analyzed and stimulated and as a result requirement in the confidentiality of information exchanged and the authenticity of the entities communicating was also verified during the simulation.

The paper proposed solutions to the security for authentication, ellipitic curve digital signature algorithm was proposed. For confidentialityconfidentiality, DTLS was together with ECC given the significant amount of research in the areas of authenticity, confidentiality, integrity, non-repudiation and software authenticity, which shows concrete proven solution exists to these issues. In the author view, the current solution to these issuese of sufficient to reasonably mitigate the security concerns in these areas. However further research can always be done into the enhancement in new cryptographic mechanisms that are more efficient then the currently used mechanisns.

Paper tittle : A novel approach to provide protection for women by using smart security device.

Author Name: kalpana seelam, k. Prasanthi

Publication : IEEE international Conference on inventive systems and control (ICISC 2018), ISBN:97815386-0806-7, 2018.

Methodology: Arduino

It says that in today's world women are less secure and have many issues regarding their security purpose. This paper describes about safe and secured electronic system for women which comprises of an Arduino controller and sensors such as temperature LM35, flex sensor, MEMS accelerometer, pulse rate sensor, sound sensor. A buzzer, LCD, GSM and GPS are used in this project. When the woman is in threat, the device senses the body parameters like heartbeat rate, change in temperature, the movement of victim by flex sensor, MEMS accelerometer and the voice of the victim is sensed by sound sensor. When the sensor crosses the threshold limit the device gets activated and traces the location of the victim using the GPS module. By using the GSM module, the victim's location is sent to the registered contact number.

Paper tittle : Child safety monitoring system based on IoT.

Author Name: N. Senthamilarasi, N. Divya bharathi, D. Ezhilarasi, R. B. Sangavi.

Publication : 2019

Methodology: Raspberry pi

Raspberry Pi microprocessor in which all other Sensors, GPS and GSM are integrated. The user are required to register using their credentials to use the application. The device will be given to the children for monitoring then regularly. We will feed the find boundary value while writing code for the systemsystem and we control it using GPS for that device which is also known as geo fencing. These data stored in the server.

A portable device which will have a pressure switch. As soon as an assiallant is about the attack the person or when the person senses any insecurity from a stranger he/she can then put pressure on the device by squeezing or compressing it. Instantly the pressure sensor sense these pressure and a conventional sms with the victim location will be sent to the parents/guardians cell phone number stored in the device while purchasing it followed by a cell. If the call is unanswered for a prolonged time, a call will be redirected to the police and the same message will be sent. Additionally, if the person crosses some area which is usually not accessed by the person then a message with the real-time location is sent to the parent/guardian’s phone via conventional sms.

Paper tittle : An intelligent door system using raspberry pi and amazon web Services IOT

Author Name : S. Nazeem Basha, Dr. S.A.K. Jilani, Mr.S. Arun"

Publication : V33(2),84-89 March 2016

Methodology: prototyping

Intelligent door system using Internet of Things, which notifies intrusion by sending out email notification to the owner. It logs all the intrusion data into google spread sheet of owner's google drive account. ADXL345 accelerometer detects the change in motion of the door and raspberry pi to read sensor intrusion data and to communicate to the Amazon Web Services Internet of Things(AWS IoT) console. Based on the messages from AWS IoT console, AWS Simple Notification Service(SNS) will send out email notification to the concerned owner based on the AWS IoT console message. Simultaneously all the intrusion logs are stored int o google spreadsheet by OAuth2.0 protocol to access related google Application program inter face (APIs). Obtaining the accelerometer sensor data is done by using python programming langu age and interface the obtained data on IoT. By successfully performing this system, it can be used as a prototype in stengthening door security in many applications such as bank burglary, home invasions, Ram-raiding, office door bre aching and lock picking.