Project Ideas

01
Every day people use their phones more than 3 or 4 hours a day, and that makes the battery become hot. So to solve this problem, we need to find a way on how to reduce the temperarture of the battery?

02
We have a problem how we know things hot or cold, I just think find thing can we know is cold or hot from outside.

03
Sometimes I leave my house. Whenever I come back I often find my plants in my garden dead. I would like to invent a system that keeps my garden green while I am leaving the house.

04
We waste a lot of electricity by keeping the electricity on at our houses and offices . when I leave my apartment I forget the lights and the TV on . So, we waste a lot of energy and money.

05
Talking about a problem that I personally face, at some houses (my house is one of them) we have a main gate outside of the house. To get to the house by car you have to access the main gate first. So, someone has to open the gate whenever we have a guest to our house.
Keeping a watch-man at the main gate is a necessity, but an expensive procedure.

06
Every time I bought a bike and went to the class. My bike got stolen by someone.

07
One of the reasons for the traffic jam is the traffic light, because most of them work on schedule for example we have four of them and each of them work for one minute, so if we have a 50 cars in one side and the other on just one car.

08
If you lose your home key some where and you don't have spear. So there is a Device scan your face to open the door

09
I have a huge video games setup in my room, and one day when I came back I found that the whole setup was messed up by my little brother, so I need a solution that will keep him away from it. (something like a light electrical shock.)

10
Drunk drivers are dangers for us, and it's illegal. So we have to make the cars know if he is drunk. to solve this problem.

11
Agriculture automation increased the efficiency and reduced the costs of production in the recent days. There is scope for betterment in the wool industry where many things are still manual. Improving the automation in wool industry will reduce the price of the clothing, helping people to afford the one of the basic needs.

12
Global warming is causing unseasonal heavy rains and floods. The dams on the rivers are heavily threatened by sudden change of water levels. Dams being limited to handle certain water level. If flooded suddenly dams will be damaged and can further cause floods. Automation can help checks this problem

13

It is hard to find parking spot at the university or a shopping mall. We spend long time to search for a vacant spot to park our cars. It is a great waste of time and money. We would like to design a machine that can resolve this, by providing information at the entrance of the system.

14

Water management is a major issue in urban areas. Water these days becoming scarce, a smart way to manage water is a need for the humane society, this being the major problem in semiarid and arid areas as well, we need to solve this problem.

15

So the problem I'm thinking about is, most of the time we over-use our toothbrush and we do not change them in time. We do not floss our teeth.

16

How to protect the student from the snow in the campus. Student and professors always suffer from the snow in the winter many student and professors get sliding and injuries. Sometimes snow can be cancel the classes during the winter

17

Driving The car on the road that I don't know is scary. I spent a lot of time and money fixing a car after running into a bump on the road. It's life risk especially when we are driving at night.

18

I want to give back something to the community that I lived for a while. Potato being the major harvest in Idaho, Farmers invest a lots of money in manpower for harvesting and processing their produce (potato). I believe human energy is to be utilized for innovation, not for labor.

19

My problem is using light at home during I'm out of the home because sometimes I missed to turn light off which means using energy without any benefit . So basically, I'm trying to save energy by making efficient use of light.

20

Electric shock
1- Learn how electricity works.
2- Know your limits
3- Find out electricity requirements
4- Turn the electricity off
5- Cover sockets and outlets
6- Avoid common mistakes
7- Avoid water
8- Replace worn or damaged equipment
9- Turn the power back on
10- Wear protective back on

21

During winter, there will be snow and it covers our passage, road. Snow should be cleared before it becomes hard, otherwise it gets difficult to clean. I want to make a sensor to detect current condition of snow in our passage and notify to clean the snow. Also, if the snow goes more than 1cm it will make alert to clean it. It will help to reduce snow related accidents.

22

I got a speeding ticket while I was driving on the highway. I did not mean to speed. The highway was inclined which cause the car exceeded the speed limit. I tried to explain to the officer but he would not believe me!

23
   a. everybody might get lost in a big malls or outlits mall
      I suggest cright a small divice that can guide you to any specific restrant or Stors this divice placed near every maps in the mall and has a seinser that work with another one that placed in the stors
   b. There are a lot of people who has lost sight or blind
      I suggest make a stick that can tell the diffrince of the ground material, and connect it with a hand free . So that sinser in the stick tell the man/woman if he is walking on street or gras .Etc.
   c. everyone hear or read news about turist and what arey they doing around the earth.
      So I suggest crate a chip that can plased in side every "cell phone" or any divce that had a sincer for any conid of wepon or bump so this senser can send waves and translate it to human langage for every body around this man

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24
* smart house :-
   – Fire sensor
   – sensor for breaking and intering
   – sensor for shutting down all electric divise that is not being used.

25
Iron closet:-
Ironing my clothes is something that I don't want to waste my time every day, but we are forced to do to look tidy. I would like to design a closet that keeps my clothes ready by automatically ironing my clothes. This will save my energy and time, especially when I have early morning classes.

26
The problem I would like to address is that farmers having small control of their watering system in their farms. Sometimes they would have lost most of their crops and lost both their time and money. Farmers couldn't know the condition of their drops without being in the field.

27
Internet of things are spreading rapidly. Everything now a days has potential to be connected to internet whether it is your shoe to your car. Most of those system are tried with small computing module like micro-controller based system. However, we would need more power to compute bigger data and therefore, I would like to build internet of thing system that allows a system to connect and control over the internet within size of palm, plus computational ability like our cellphones. Beagle bone boards are powerful computational unit but it runs operating system unlike microcontroller that might have firmware at best. It is expected that soon in future BeagleBone will outperform raspberry pie.

28
One day I came back from the gym around 10PM so I went to bed too early. Then I found out the AC was on heater mode. I was so tired and broken to get up and turn it to cool mode, so I just slept.

29
smarter secure and intelligent security systems are needed in today's world. At the same time, we lose our keys once in a while that causes trouble to us. TO avoid this situation a key less door that opens with a facial recognition is to be developed.

30
*portable Solar charger:-
when you go camping are to remote area we have issues with cellphone charging to over come this issue we want to work on a system that will use renew able energy.

31

I want to make a device that can help to timely water my garden (sprinkling system) using solar energy. The system have the intelligence of the weather conditions and should be able to check the soil measuring level. This will reduce time and the need of checking my garden condition every day.

32

The idea is to convert weight energy exerted by the foot to electrical energy when a person walks by using piezoelectric material either in the shoes or on the floor. This concept can also be used on roads near humps for producing small loads of electricity. Though it won't meet the requirement of electricity but if we are able to design a floor that can produce approximately 100 watts on just 12 to 13 steps we can multiply this amount by installing more number of floors which in turn makes it significant.

33

Car has become more and more important in this generation. However, the number of traffic accident per year is also increased, and one of the reason caused those accidents is drowsy driving. The longtime trip for people is really tired, since they should pay all their attentions when they are driving. As for the people who have some disabilities in their physical body, drive car is also a difficult job. So, my problem is what kind of methods could make people driving car easily and safely.

34

Blind people have great difficulty to walk and travel independently. I would like to design a navigation system that will help blind people to walk safer. The system will have sensors to identify ditches and bumps on footpath.

35

we saw the tornadoes in texas. I think to prodect bulidings and cars from tornadoes.

36

We often would like to grow trees in apartment but most people step back thinking about all the attention your plant might need to prevent from dying. Hence, I would like to work on monitoring health of a plant remotely and be able to take actions like spraying water when necessary. So plantation gain more popularity in busy cities.

37

As an individual with hip dysplasia, it can be more difficult to be active in physical activities. Due to stress on the hips. I enjoy riding my bicycle but can be stressful on the hips when encountered with the slope of a hill. I propose to build an electric assist bicycle to help get up all of the hills I encounter while riding my bike with ease and, with little to no impact on the hips.

38

Traffic light does'nt give a priority based on the number of cars.

39

Energy saving occupacy system

40

Bluetooth tracking device:-
I have a habit of placing things here and there and forget where I kept them. This habit wastes lots of time and sometimes I lose my stuff. I want to have some sort of tracking device to find my stuff when I lose them.

41

The Extesevie Mantince and Down Time due to Carbon Bush and Carbon Dust of Bushed Motor, Generator and Motor Generators.

42

The current situation involves a pit-bull dog that crossed over the fence in danger of biting an individual walking down the street. What could the owner have done differently to avoid the situation?

43

The weak or plain lack of cellphone signal at the local airport, is a major problem for passengers.
These blind spots should be identified and solved so customers can have a reliable signal from cellphone service providers, and at the same time give Pocatello's airport a better projection to visitor s or local customer s by making more efficient the wireless communications.

44

There are no (to my Knowledge) free or cheap computer simulated DMM , oscilloscope, and breadboard.

45

I own dogs. I am a full time employee and full time student. My wife works out on the desert for INL. This translates into that we are not home all day and into the evening. This is not a problem when the weather is good, we can leave the back door and screen door open for the canines to have access to the yard. It's presents a problem during time of bad weather when we cannot leave the doors open. I want an "automated" dog door to ensure the bad weather stays outside, for security purposes and it would be high on the "cool" scale.

46

Currently on the market there exist quadcopters and quadruped robots which range in size and price. I have not been able to find a combination of a quadcopter and a quadruped robot that is inexpensive, durable, and the size is mid to large in range.

47

How generate enough power for people stuck in a flooded home for medical equipment, emergency communication devices and other critical components need to survive and get help.

48

A very common problem I always see in Africa. Electricity and very inconsistent and commonly been cut.
Many families and kids face a serious issues while that happen. As an electric engineer I always think of saving energy and providing it at the same time, a solar panel is an amazing solution with such cases.

49

On most part, energy is created by burning fossil fuels – coal, natural gas and oil. The problem with this is that these resources are finite. At the current rate of use, it is expected that the world will run out of fossil fuels in thirty to forty years to come. As a result, it will no longer be possible to generate power to operate factories and vehicles or to light and heat houses.

50

When i though of finding an issue regarding this matter. The first thing that came to my mind is a daily issues I face. I always lose my keys and my wallet. With installing a tracker that can detect my personal belongings, i would be an amazing solution. And millions of people will benefit from it.