



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500 043

Innovation/Prototype Proposal

1. Team Details

Name of the Student	Roll Number	Branch	Mobile Number
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2. Title of the Innovation or Prototype

LPG AUTO PILOT

3. Define the problem and its relevance to today's market / society / industry need

- ❖ In this busy life, a human can easily forget his tasks which need to be performed daily. Keeping that aside when he/she forgets important day-to-day life small works can lead to loss of life.
Like for example, Working Women/Men, Hostel Students, Bachelor's etc have a rush hour in the morning as well as evening. During this rush hours they completely forget even small things which might include Turning OFF the Gas Stove, this can lead to the leakage of gas & sometimes loss of life of many other surrounding or neighbours also.

4. Describe the Solution / Proposed / Developed

- ❖ To solve this issue, we came up with brilliant solution for the above given problem statement. Here we are going to turn off the knob of stove automatically. We are going to use a certain circuit which will help the user to turn off the stove with easy & without any Physical touch. By this if the user forgets to turn off stove and the gas is gets leaked, then the circuit will turn off the supply of gas to stove.

5. Explain the uniqueness and distinctive features of the (product / process / service) solution

- ❖ Our product makes us unique by the components which we use. They are not very costly, easily handleable (if you have minimum knowledge about sensor and motor), effectively accurate and reliable. Here, we are using a sensor which smells the gas and this sensor is directly connected to a motor which helps us to turn off the stove automatically which gets triggered by the sensor output.

6. How your proposed / developed (product / process / service) solution is different from similar kind of product by the competitors if any

- ❖ This product is purely developed based on a sensor and motor. Which follows all the norms of Indian Standards of LPG gas Cylinders. The usage of this combination of sensor and motor cannot be found anywhere (as far we have researched).

7.Utility: Highlight the utility / value proposition (key benefits) aspects of the solution/ innovation*.

- ❖ This product will be useful to people all the world and this will lead to alive a happy and secured life in the world with reduced fire accidents and the can even have hope that there is product with us that can save us automatically shutting down the gas and I would like to give the hope around the world.

8.Scalability: Highlight the market potential aspects of the Solution/Innovation (Potential Market Size, segmentation, and Target users/customers etc.).

- ❖ I think we will have the market with this product as far we are going to design in such a way that will be attracted by all the all category of living and making it in affordable price brings the beauty to the product and that will not cause any harm to the people using it , so we will have large market share in the world.

9.Economic Sustainability: Highlight commercialization / business application aspects of the solution (how it is going to economic profitable and viable).

- ❖ This product is going to be useful to all the people around the world so this product is highly sustainable In the market, this will also help us to generate the revenue by selling the product at reasonable prices.