# Title for paper submitted to 12th Project Innovation Contest 2023

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**(READ INSTRUCTIONS OF EACH SECTION CAREFULLY BEFORE PREPARING THE PAPER)**

***Abstract*-** Mention the abstract for the article. An abstract is a brief summary of a research article, thesis, review, conference proceeding or any in-depth analysis of a particular subject or discipline, and is often used to help the reader quickly ascertain the paper's purpose. When used, an abstract always appears at the beginning of a manuscript, acting as the point-of-entry for any given scientific paper or patent application. Write the abstract of your project in **200 words**. Use the F**ont “Times New Roman”** and F**ont size “11”** to prepare the project paper. Use the page **Margins Top=0.7 in, Bottom=0.7 in, Left=1.0 in, Right=1.0 in**.

***Index Terms***- About four key words or phrases in alphabetical order, separated by commas. Keywords are used to retrieve documents in an information system such as an online journal or a search engine. (Mention 4-5 keywords)

1. Introduction

In this section, briefly explain the introduction of the project, aim of the project, need of such type of project, technology used and in major scale how it will help the society. Within **3 to 4 paragraphs** mention all the above points about the project. Add **citations** [1,2,3,4] from reference papers at appropriate places.

1. **Statement of the problem and Objectives**

“About 15% of the world's population, with up to 190 million (3.8%) people aged 15 years and older having significant difficulties in functioning”

-WHO

A large population of the world is handicapped who are facing a lot of difficulties and for some medical expenses are affordable while the other half lives with the lack of support,so we have tried to solve this problem by making a smart-wheelchair that can navigate itself in a given closed environment and can detect obstacles as well as keep check on the health of the individual sitting on it.

We are using different sensors for achieving our goals and the sensors work together with an Raspberry pi and an Arduino circuit that can be replaced with an integrated circuit in the near future. The details and working of the sensors are given further in this document.

“My advice to other disabled people would be, concentrate on things your disability doesn't prevent you doing well, and don't regret the things it interferes with. Don't be disabled in spirit, as well as physically.”

- Professor Stephen Hawking Renowned Physicist

Stephen Hawking was also disabled due to an accident but he did not let that hold him back , for him technology was his friend so he used a wheelchair for communicating and all other purposes that he needed and we would like to provide a similar experience to all the other handicapped people around the world.

1. **Background Study and Technology gaps identified**

While doing this project go through a complete thought process of project subject and it's viability by following means:

1. Read already published work in the same field.
2. Goggling on the topic of your project work.
3. Suggestions from the project mentor.

In this section, present some existing projects or system similar to the current project and their comparisons. Identify unique and innovative points of the current project that are not present in some of the existing projects in the same field. If no such project is available in past, then this section can be **omitted**.

1. Proposed Model / Tool

This is the most crucial step for the project. In this section, describe about the project’s model or tool and it’s working with some figures (Block diagram or Ckt diagrams). Theoretically explain the working of the project with a diagram (if suitable).

1. Implementation and results

In this section, describe how the project is developed and implemented. Mention about the case studies done using the proposed technique and findings of the case studies.

1. CONCLUSION

In conclusion section, the author has to present the processes, observations and findings of the project. The author may give some suggestions for future directions of their projects for the readers.

References

In this section, add all the references of your project work. In a project paper, this section is **very important**. while entering the references, **follow the uniform formatting** for all the references listed in this section. All references in this list **must be cited** in appropriate places inside the paper.

[1] X. Zhang, R. Gupta, and Y. Zhang, *Precise Dynamic Slicing Algorithms*,In Proceedings 25th International Conference on Software Engineering,IEEE, pages 319-329, 2003.

[2] J. Krinke, *Context-sensitive Slicing of Concurrent Programs*, ACM SIGSOFTSoftware Engineering Notes, Vol-28(5), pages 178-187, 2003.

[3] G. Kiczales, J. Lamping, A. Mendhekar, C. Maeda, C. Lopes, J. M.Loingtier, and J. Irwin, *Aspect-Oriented Programming*, Springer, 1997.

[4] L. Larsen and M. J. Harrold, *Slicing Object-Oriented Software*, In Proceedingsof the 18th International Conference on Software Engineering,IEEE, pages 495-505, 1996.

* **Estimated benefits to the society and generation of income**

In this section, describe how the project is going to benefit the society and list out the beneficiaries. Whether the project has capability to generate some income sources for the poor or weaker section and if yes, then explain in details the financial strategy.

* **List out the measurable indicators for your project (from below)-**

Following are the ten tangible/non-tangible indicators according to SERVEQUAL model to access the service quality of the project developed:-

|  |  |
| --- | --- |
| **S. No.** | **Indicators** |
| 1 | **Increase in crop production** |
| 2 | **Increase in land productivity** |
| 3 | **Change in land use pattern** |
| 4 | **Increase in family income** |
| 5 | **Improved linkages with Distt. authorities/State Govt/ PRIs** |
| 6 | **No. of SHGs/technology user groups/cooperatives and/or enterprises formed** |
| 7 | **Improved linkages with market/ enterprises** |
| 8 | **Adoption of newly developed product indicated by number of adopters** |
| 9 | **No. of organizations motivated and mobilized for replication of project achievements** |
| 10 | **No. of publications produced (Title, Journal, issue, yr.)** |