



Vanness Chang
YIS 2022 Semi-Finalist
"Rubik's Touchless"

1-PAGE INNOVATION REPORT GUIDELINES

The **Innovation Report** is a summary of your project and the first thing that your judges will see when they want to learn about your project. When writing your report, think about who will be reading it. Your judges may be experts on your topic, or they may have only general knowledge of it. You'll want to provide them with enough information that they understand your project and what you are trying to accomplish, but not so much that they become confused by the details. This can be a difficult balance!

We've put together some guidelines and tips to help you write your Innovation Report. While we strongly recommend you discuss these topics in your report, it is up to you to decide how to best communicate your innovation to judges.

Young Innovator Profile

Vanness Chang's passion for the Rubik's cube led him to invent "Rubik's Touchless", a virtual Rubik's cube controlled by voice command so that people with arm or hand disabilities can enjoy the fun of Rubik's cubes.



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WHAT TO INCLUDE

Your Project Title and Name: This should be the first line on your report. Your title can be a technical description of your project, or a creative way to introduce everyone to what your project is all about.

Introduction and Background: Here is where you explain the background information about your project. Try to answer these questions: Where did you get the idea for your project? What inspired you or made you interested in this topic? Introduce the problem or challenge that your project solves and who this solution will impact. If your project is a continuation of an earlier project, describe your previous project and how you've made changes and additions in your new project.

Procedure: This is a brief outline of the materials you used in your project and the methods you used to carry out your project. This could include a description of how you gathered your data or information, or how you built and tested different prototypes that you used in your project.

Results and Observations: After you tested your innovation, describe the results that you discovered. Did your innovation achieve its stated purpose? Did you encounter or notice anything unexpected? This section can include graphs, diagrams and charts, but should not include your raw data. Remember, this is a summary!

Conclusion: What conclusion have you drawn from your project results? Have you answered the question or problem posed in the Introduction and Background section of your report? Why is this conclusion important? This is also where you can discuss ideas for a future project that builds on the knowledge you gained from this project.

FORMAT:

Please make sure your report follows these formatting requirements:

- No more than 1 letter-size (8.5 x 11 inches) page
 - Note: Your Reference List and Bibliography do not count in the 1-page limit and can be up to 2 additional pages, for a maximum limit of 3 pages for the overall innovation report
- Text size must be 12-point, and the font must be Times New Roman, Arial, or equivalent (make sure it is very easy to read)
- Page margins must be 1 inch all around
- Submit your final report in PDF format



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Acknowledgements: This is where you recognize anyone who helped you during your project. This could be someone who helped you do research or design your experiment, or an institution that provided financial support or access to lab space or equipment.

References: Your references are any key sources of information that directly contributed to the development of your project. Proper citation is important to avoid plagiarism, and to give proper credit to others and the work they've done. This could be websites or books that you used to research your topic, or a video that helped you understand some key concepts or design framework. Be sure to include the author or creator of the source material, the title, publication, volume, date and page numbers (where applicable) for all your source material. Look up "APA format" for detailed guides on how to properly reference your source material.

Bibliography: A bibliography is a full list of any source material that you consulted for your project but didn't directly contribute to the development of your project. You may have read five books about microorganisms, but only one had the type of information you needed to design your project.

TIPS:

- This is a formal scientific report and your writing style should reflect professionalism and your own understanding of the topic. You can do this by:
 - using appropriate vocabulary
 - making sure your grammar and punctuation are correct
 - using a clear and concise writing style
- Write a draft of your report, leave it for an hour or a day, then come back and proofread it. You don't need to get your report right the first time. You may edit your report several times before you're ready to submit it.
- Read your report out loud. This will help you catch repeated or missing words, unclear statements, and other mistakes.
- Make sure you stay within the formatting requirements. Explaining your project clearly while staying within the 1-page limit can be challenging but effective science communication is an important and highly-valuable skill to have.

