

This is a general template. Feel free to use other formatting options, whatever feels best for your project. You can explore past reports on the website under Statewide Programs > Research Symposium and look through previous years' symposiums to find example reports, abstracts, and posters. Link to 2023 symposium: <https://www.colorado.edu/center/spacegrant/statewide-programs/research-symposium/symposium-results-and-details/2023-symposium>

(Team or project photo if desired)



Title of Project

Authors

School

NASA Colorado Space Grant Consortium Demosat/Wearables/Robotics/etc.

Date

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Abstract

The abstract **briefly** summarizes the entire project, including the problem addressed, the approach taken, key methods, major results, and overall conclusions. It should be a clear snapshot of the work so a reader can understand the purpose and main findings without reading the full report.

Introduction

The introduction provides background information, context, and motivation for the project. It should describe the problem being solved, relevant prior work, and the specific goals or hypotheses. For projects like high-altitude payloads, rovers, or wearables, this section explains why the system was designed and what it aims to accomplish.

Materials and Methods

This section explains exactly what was built and how the work was carried out. It includes descriptions of components, sensors, software, fabrication steps, and procedures. For engineering projects, it should provide enough detail for someone else to replicate the system or experimental setup.

Testing / Flight Readiness (if Flying)

This section documents all verification and validation steps taken to ensure safe and successful operation. It may include environmental tests, functional tests, checklists, risk assessments, and flight readiness procedures. For example, for high altitude payloads, this includes the whip test, drop test, and other additional testing. The goal is to show that the system meets requirements and is prepared for launch or deployment.

Results and Analysis

The results section presents the data collected from testing or deployment, as well as key observations about system performance. Figures, tables, graphs, and summaries of measured outcomes should be included. This section reports what happened without interpreting why.

Conclusion and Recommendations

The conclusion summarizes the main findings, evaluates whether the goals were met, and reflects the system's performance. Recommendations highlight possible improvements, next design steps, and lessons learned that would help future teams working on similar payloads, rovers, or wearable systems.

References

The references section lists all sources used to support the project, including research articles, websites, textbooks, datasheets, and technical documents. Every source cited in the report should appear here in a consistent format. This section allows readers to verify information, explore background material, and understand where design decisions or scientific claims came from.

Appendix

The appendices contain supporting material that is helpful but not essential to the main flow of the report. This can include detailed calculations, full code listings, wiring diagrams, additional figures or data tables, extended test logs, or any supplemental documents referenced in the main text. Appendices keep the main report clear and readable while still providing complete technical information for readers who need it.