
Carleton High Altitude Radiometer
Project Proposal
Canadian Stratospheric Balloon Experiment Design Challenge

October 14, 2018

DAVID BASCELLI TEAM LEAD
JACOB BOOTH SENSOR LEAD

Carleton University

Contents

1	Executive Summary	5
2	Proposal	6
2.1	Scientific Objectives	6
2.2	Experiment Design	6
2.2.1	Outline	6
2.2.2	Radiometer Block Diagram	6
2.2.3	Attitude Determination	6
2.2.4	Experimental Procedures	6
2.2.5	Resources	6
2.2.6	Technical Risk Assessment	6
2.3	Management	6
2.3.1	Team Structure	6
2.3.2	Project Time-line	6
2.3.3	Budget	6
2.3.4	Managerial Risk Assessment	6
2.4	Outreach	6
2.4.1	Public Outreach	6
2.4.2	Academic Outreach	6
3	Conclusion	6
4	References	7
5	Appendix	7

List of Figures

List of Tables

1 EXECUTIVE SUMMARY

2 PROPOSAL

2.1 Scientific Objectives

2.2 Experiment Design

2.2.1 Outline

2.2.2 Radiometer Block Diagram

2.2.3 Attitude Determination

2.2.4 Experimental Procedures

2.2.5 Resources

2.2.6 Technical Risk Assessment

1. Human [1]
2. Technical and Environmental

2.3 Management

2.3.1 Team Structure

2.3.2 Project Time-line

2.3.3 Budget

2.3.4 Managerial Risk Assessment

2.4 Outreach

2.4.1 Public Outreach

2.4.2 Academic Outreach

3 CONCLUSION

4 REFERENCES

REFERENCES

- [1] M. Omar, M. El-Kassaby, and W. Abdelghaffar, "A universal suspension test rig for electrohydraulic active and passive automotive suspension system," *Alexandria Engineering Journal*, vol. 56, no. 4, p. 359–370, 2017.

5 APPENDIX