Carleton High Altitude Radiometer

Project Proposal

Canadian Stratospheric Balloon Experiment Design Challenge

December 2, 2018



DAVID BASCELLI TEAM LEAD JACOB BOOTH SENSOR LEAD

Carleton University

Contents

1 Executive Summary			Summary	5	
2	Proposal				
	2.1	Scien	tific Objectives	6	
	2.2	Exper	iment 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	Mana	gement	6	
		2.3.1	Team Structure	7	
		2.3.2	Project Time-line	7	
		2.3.3	Budget	7	
		2.3.4	Managerial Risk Assessment	7	
	2.4	Outre	ach	7	
		2.4.1	Public Outreach	7	
		2.4.2	Academic Outreach	7	
3	3 Conclusion			7	
4	References			8	
5	App	endix		8	

List of Figures

List of Tables

1 EXECUTIVE SUMMARY

2 PROPOSAL

2.1 Scientific Objectives

Jacob

2.2 Experiment Design

2.2.1 Outline

2.2.2 Radiometer Block Diagram

David

2.2.3 Attitude Determination

Jacob

2.2.4 Experimental Procedures

David

2.2.5 Resources

David

2.2.6 Technical Risk Assessment

Jacob

- 1. Human [1]
- 2. Technical and Environmental

2.3 Management

David

- 2.3.1 Team Structure
- 2.3.2 Project Time-line
- 2.3.3 Budget
- 2.3.4 Managerial Risk Assessment
- 2.4 Outreach

Jacob

- 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. 359âĂŞ370, 2017.

5 APPENDIX