[Type the author(s)]

[Abstract]

Payload

Payload On-Board CougSat-1

Revision: 1.0.0



Table of Contents

[1 Introduction 2](#_Toc507509208)

[2 Theory 3](#_Toc507509209)

[2.1 Physics 3](#_Toc507509210)

[2.1 Electrical components 3](#_Toc507509211)

[3 Design Criteria 4](#_Toc507509212)

[4 Design Considerations 5](#_Toc507509213)

[5 Detailed Description 6](#_Toc507509214)

[5.1 Functional Block Diagram 6](#_Toc507509215)

[5.1 Hardware 6](#_Toc507509216)

[5.3 Software 6](#_Toc507509217)

[6 Testing 7](#_Toc507509218)

[6.1 Testing Apparatuses 7](#_Toc507509219)

[6.2 Results 7](#_Toc507509220)

[7 Discussion 8](#_Toc507509221)

[8 Conclusion 9](#_Toc507509222)

[9 Recommendations 10](#_Toc507509223)

[10 Appendix 11](#_Toc507509224)

[10.1 Bill of Materials 11](#_Toc507509225)

[10.2 Mechanical Drawings 11](#_Toc507509226)

[10.3 Full Schematic 11](#_Toc507509227)

# 1 Introduction

Follow this guide: <http://www.mhhe.com/mayfieldpub/tsw/introduc.htm>

There is no need to include background on what a CubeSat is. The main CougSat-1 documentation covers this.

# 2 Theory

Follow this guide: <http://www.mhhe.com/mayfieldpub/tsw/theory.htm>

Use sections if applicable

## 2.1 Physics

Lorem ipsum dolor sit amet, consectetur adipiscing elit.

## 2.1 Electrical components

Lorem ipsum dolor sit amet, consectetur adipiscing elit.

# 3 Design Criteria

This system should do this be successful. Follow this guide: <http://www.mhhe.com/mayfieldpub/tsw/designcr.htm>

# 4 Design Considerations

Explain the relevant design considerations for the project

# 5 Detailed Description

Include all relevant hardware this project is made of. Use sections is appropriate.

## 5.1 Functional Block Diagram

This diagram shows how our system works

## 5.1 Hardware

This chip does \_\_\_\_\_\_\_, we choose it because it is \_\_\_\_\_

We did/did not use \_\_\_\_\_ because they do \_\_\_\_\_\_ in space

## 5.3 Software

Our software controls \_\_\_\_\_\_ because \_\_\_\_\_\_\_

# 6 Testing

Explain how the system is tested and evaluated for completeness

## 6.1 Testing Apparatuses

We built/use \_\_\_\_\_\_ that allows us to test \_\_\_\_\_

## 6.2 Results

Graphs, tables, statistics, oh my!

# 7 Discussion

Were all requirements just met or came out better. Follow this guide: <http://www.mhhe.com/mayfieldpub/tsw/discuss.htm>

# 8 Conclusion

Summarize all relevant information. Follow this guide: <http://www.mhhe.com/mayfieldpub/tsw/conclusi.htm>

# 9 Recommendations

What to do next? What to improve? Follow this guide: <http://www.mhhe.com/mayfieldpub/tsw/recommen.htm>

# 10 Appendix

Include materials that are not essential to the document but give more information for those who want it. Follow this guide: <http://www.mhhe.com/mayfieldpub/tsw/appendix.htm>

If a drawing is not natively a portrait letter size, change that single page to make the drawing’s format. Follow this guide: <http://blogmines.com/blog/how-to-have-different-page-size-in-the-same-document-in-word-2010/>

## 10.1 Bill of Materials

Tables are cool

## 10.2 Mechanical Drawings

Measurements measure millimeters

## 10.3 Full Schematic

Wires