

# En resa mot Svartåns djupa mörker

Felix Sjöqvist  
Mälardalen University  
Västerås, Sweden  
Email: fst17001@student.mdh.se

Olle Olofsson  
Mälardalen University  
Västerås, Sweden  
Email: oon17003@student.mdh.se

**Abstract**—The abstract goes here.

## I. INTRODUCTION

*Explain the subject. What was i studying? Why was this topic important to investigate? What did we know about the topic before I did this study? How will this study dvance new knowledge or new ways of understanding?*

## II. STATE OF THE ART

*The latest and most sophisticated or advanced stage of a technology or science. State of the art if the foundation for determining the methid and methodlogy.*

## III. HYPOTHESIS

*In scienc, a hypothesis is an idea or explanation that you then tesr through study and experimentation. Outside science, a theory or guess can also be called a hypothesis*

## IV. PROBLEM FORMULATION

*The problm formulation is defined upon hypothesis to define the problem or problems for the thesis*

## V. RESEARCH QUESTIONS

*A research question guides and centers your research. It should be clear and focusd, as well as synthesize multiple sources to present your unque argument. RQ should be fur-mulat*

## VI. METHOD

*How will you test the hypothesis? What methods will be used from the knowledge learned in state of the art?*

The PCB was tested using the National Instruments myDAQ, by imposing a square wave with following characteristics:

- Constant 5V amplitude.
- Constant 2.5V positive offset.
- Variable frequency  $100Hz - 10kHz$
- Variable duty-cycle 10% – 90%

and then measuring the output

## VII. RESULTS

*What are the results your method have given?*

## VIII. CONCLUSION

*Have you provn or disproven the hypothesis? If not, why?*

## IX. DISCUSSION

## X. FUTURE WORK

*What is the best way to continue the work?*

## ACKNOWLEDGMENT

## REFERENCES

- [1] H. Kopka and P. W. Daly, *A Guide to L<sup>A</sup>T<sub>E</sub>X*, 3rd ed. Harlow, England: Addison-Wesley, 1999.