

**DEVELOPING INSTRUMENTATION MODULE FOR LINEAR THERMAL
EXPANSION OF METAL RODS**

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STATEMENT BY THE AUTHOR

I hereby declare that this submission is my own work and to the best of my knowledge, it contains no material previously published or written by another person, nor material which to a substantial extent has been accepted for the award of any other degree or diploma at any educational institution, except where due acknowledgement is made in the thesis.

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ABSTRACT

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This thesis aims to develop an instrumentation module for the experiment of linear thermal expansion of metal rods. This thesis creates a new instrument and instruction module for the use of physics laboratory studies in Swiss German University. This thesis hopes to create ease of use for the end user of the physics lab experiment by using Arduino as a controller.

Keywords: Linear Thermal Expansion, Arduino, Thermocouple, Coefficient of Linear Thermal Expansion of Metals



DEDICATION

I dedicate this work for Swiss German University physics lab.



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