

H. T. I.

ELECTRICAL ENGINEERING DEPARTMENT

DIPLOMA PROJECT

DEVELOPMENT OF A RADIATION
DETECTOR CALIBRATOR SYSTEM

E / 962

MORGIANNIS THEMIS

1995

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HIGHER TECHNICAL INSTITUTE	PROJECT NO. 2441
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ACKNOWLEDGEMENTS

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ABSTRACT

The objectives for the project were to develop, construct, test and calibrate an electronic test facility suitable for the calibration of an electronic radiation detector.

The system should be suitable as a stand alone system and an operator's manual will describe all the procedure details.

The parts that make up the calibrator are as follows:

- (a) A regulated power supply with an output of 15V d.c. at 100 mA.
- (b) A square pulse generator with an output suitable between 1 and 100 pulses/second.
- (c) A counter suitable for counting 12V square pulses within pre-selected time intervals.