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RESEARCH ABSTRACT FORM

TITLE: Intelligent Balloon Sensor Calibration and Data Acquisition

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The University of Akron is currently involved in an ongoing project to design an intelligent near-space balloon that has the capability to use different data sensors to retrieve information and transmit it back to the base station by way of wireless communication. To ensure the accuracy of the data received, proper calibrations have to be implemented and tested against reference data to check for inconsistencies. In this experiment, I used a thermistor temperature sensor along with previously designed transmitter and receiver circuits to test the calibration process and the accuracy of the data received.