

Design of a room temperature controller using PSoc technology

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Abstract: Research and design of an automated temperature management system for living spaces to meet energy-saving requirements and improve quality of life. The topic combines theoretical and experimental methods to develop an intelligent control algorithm based on a SoC (PSoC) event processor. The goal is to build a comprehensive, flexible, and highly customizable solution for automation system designers. Expected results will demonstrate the effectiveness and wide practical application of the topic.

Keywords: Automation system, SoC Event Processor (PSoC), Temperature control, Energy saving, Living environment optimization