FAU FLORIDA ATLANTIC UNIVERSITY
COLLEGE OF ENGINEERING & COMPUTER SCIENCE

Intro to Embedded Systems → Executive Summary

Smart IOT Thermostat

Students	**Luis Rodriguez-Baz , Michael Bryan**	**Spring 2024**
Advisors	**Dr. Bassem Alhalabi**	

Title: Smart Thermostat for Modern Homes

General Description:

Our project, the Smart Thermostat for Modern Homes, introduces an innovative solution to optimize energy usage and enhance comfort in residential settings. By leveraging advanced technology and connectivity options, our thermostat integrates seamlessly into any home environment, providing users with intuitive control and real-time monitoring capabilities.

Description or Theory of Operation:

Utilizing a combination of sensors and circuits our thermostat detects environmental conditions such as temperature and time of day, allowing for automatic adjustments to optimize comfort and energy efficiency. Users can also manually control the thermostat through a user-friendly interface, providing flexibility and customization options.

Conclusion:

In conclusion, the Smart Thermostat for Modern Homes represents a significant step towards creating smarter and more sustainable living environments. By combining cutting-edge technology with user-centric design principles.