

Master Thesis Brief Description

Thesis Title	Building Automation Systems for Energy Efficiency
Programme of Studies	MSc in Sustainable Energy Systems
Course	SES 525 Capstone Project II
Area of Study	Computational Building Physics – Whole Building Energy Analysis
Student's Name	Alexia Panou
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Supervisor	Dr.-Ing. Paris A. Fokaides, V. Lecturer, Frederick University
Supervisory Committee	Dr. Agis Papadopoulos, Professor, Aristotle University Thessaloniki Dr. Fryni Giama, Lab. Teaching Staff, Aristotle University Thessaloniki
Semester	Spring Semester 2016
Short Description	This project examined the effect that automation systems have on a building's energy efficiency. It defined the meaning of Building Automation System and in accordance with the European Standard on Building Automation defines the different types and levels of system automations, the BACS class and the way it affects the building's energy consumption. The existing automations on lighting, HVAC and domestic hot water systems were examined, the integration of automations in smart buildings and the latest trend on building automation, Internet of Things. Finally, a small scale case study was presented to showcase the results.