Lab12 – Automating Everyday Events

Objectives

Imagine daily activities that would make your life easier if they were automated.

Background / Scenario

Many activities performed daily are redundant and have the potential of being automated with advances in technology. Use your imagination or search videos to help you think of activities that could be made more useful if they contained intelligent sensors.

Required Resources

- none

Step 1: Activities to Automate

Think about your day in your home, school, or office. Are there any activities that you think would save you time if they were automated? As an example, if the smart refrigerator in your home had sensors to detect weight, it could determine that the milk carton was getting low and automatically order milk that is delivered to your home. Use the table below to list at least 5 activities and how each particular activity could be automated. If you use any videos to spark ideas for automation. List the name of the video and main URL after the table and potentially share with group members.

a. List the activities that you selected and how the activity might be automated.

Activity	How would the activity be automated?
1.	
2.	
3.	
4.	
5.	
6.	

Answers will vary, but sample answers follow.

Activity	How would the activity be automated?
1. Turn on lights	When you wake in the morning, the lights in the bedroom and in the kitchen automatically turn on.
2. Prepare breakfast	The pre-selected menu is automatically prepared and ready at a specific time.
3. Wake children	If the children stay in bed after a specific time, a message plays. If the child is still in bed after 5 minutes, the bed shakes. After another 5 minutes, the bed gently lifts to a slanted position. The playing of taps is last.
4. Clothes preparation	A schedule is checked for what is on the agenda for the day and appropriate clothing is selected and placed in the bedroom by the time you get out of the shower. Shoes are shined, if necessary. Coordinating accessories are also provided.
5. Laundry	Based on the laundry levels, laundry is done and clothes folded.
6.	

b. List any URL and associated video title you used to spark ideas for the automation list.

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Answers, will vary, but a sample video is on YouTube.com and is called What is Automation?.