

ECE-303 Lab (Week 7)

- **Video Lesson 9 Summary**
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Video Lesson 9 Summary

RFID

- **Experiment 1a**
 - Configure the RFID reader
 - Display the RFID tags' unique identifiers (UIDs)
 - Display 1024 bytes of memory on the RFID tag
- **Experiment 1b**
 - Use tags' UIDs and for access authorization
- **Experiment 1c**
 - Write to the tags' memory

IR

- **Experiment 2**
 - Configure IR remote and receiver and print button codes
- **Experiment 3**
 - Control the color of LEDs using the IR remote

Week 7 Deliverable

- **RFID Access Authorization System w/ User Feedback**
 - Solid green LED indicates RFID reader is ready
 - Read an RFID tag's UID at maximum every 2 seconds
 - If the card's UID is read
 - Alternate LED color between green and yellow over 2 seconds
 - Play a high tone using the piezo buzzer
 - If any other UID is read
 - Alternate LED color between green and red over 2 seconds
 - Play a low tone using the piezo buzzer