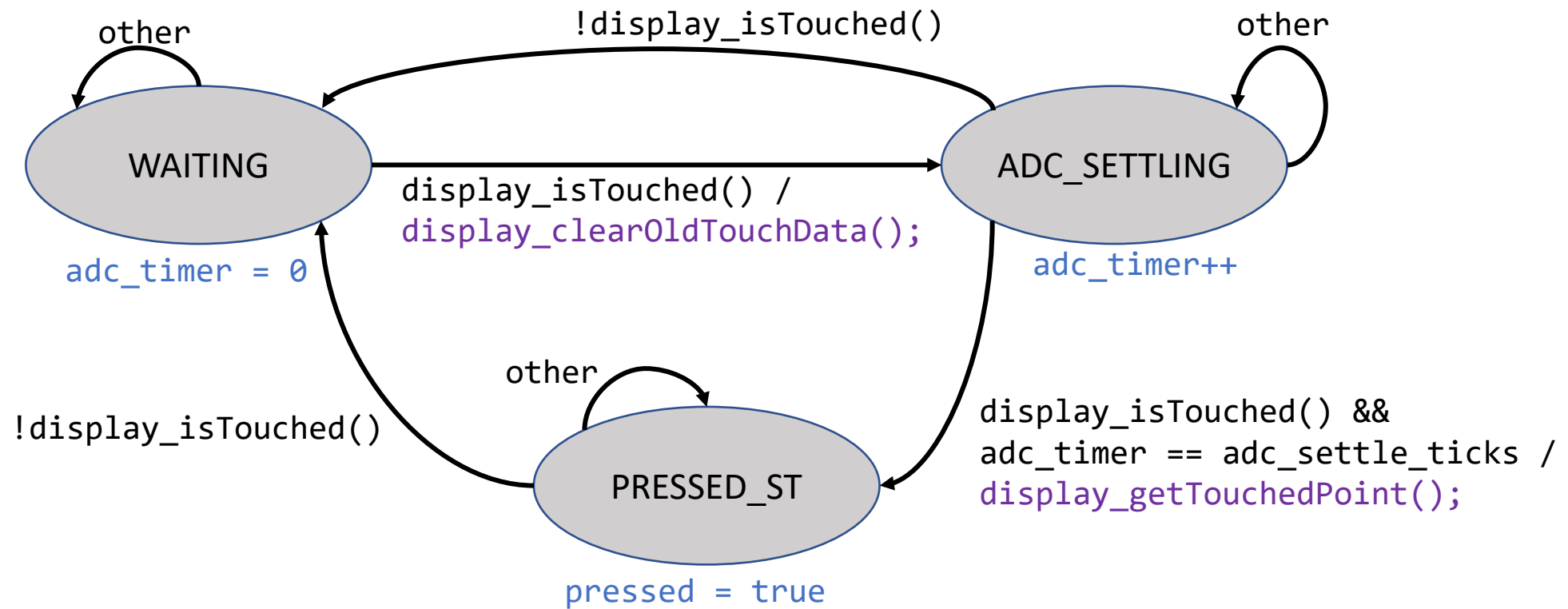




Touchscreen

ECEN 330

BYU Electrical & Computer
Engineering
IRA A. FULTON COLLEGE OF ENGINEERING



- You can use the above diagram to implement your state machine. You can follow this design exactly, or make changes if you like.
- The **adc_timer** tracks the number of ticks elapsed since the user touched the screen, and is used to implement the delay required to allow the ADC to settle.
- **adc_settle_ticks** should be set in your ``touchscreen_init()`` function, according to the provided state machine period.
- You will need to declare the SM states in your **touchscreen.c** file. The SM states are ****_different_**** than the touchscreen statuses (**touchscreen_status_t** enum) defined in **touchscreen.h**.
- The **pressed** variable can be used to track whether your driver has an **unacknowledged** touch. It is set in the state machine and cleared in ``touchscreen_ack_touch()``.