

Senior Design Bioe 4035

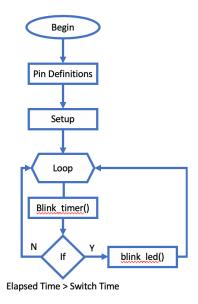
College of Engineering and Applied Science

## Activity 5 – Blink No Delay



## To Do

- ☐ Define Globals.
  - o currentTime
  - lastTime
  - o switchTime
  - ledState
  - o millis()
- $\square$  Create blink\_timer() function.
- ☐ Functionalize commands in loop
  - Loop should now only consist of a single function named blink\_timer()
  - blink\_led() will now be called from blink\_timer()



```
// *************** Setup ****************
// the setup function runs once when you press reset or power the board
void setup() {
    // start serial port at 9600 bps:
    Serial.begin(9600);
    while (!Serial) {
        ; // wait for serial port to connect. Needed for native USB port only
    }
    // initialize digital pin LED_BUILTIN as an output.
    pinMode(LED_PIN, OUTPUT);
    // initialize timers for LED blinking
    lastTime = millis();
    currentTime = lastTime;
} // end setup
```

