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Morgan Wixted, UF

3 Hour Classes, Ages 10+ only

10 student MAX in a class

**Syllabus:**

* Ice breaker
* Overview of concepts that will be used for each project, distribute notes
* Intro to project
* First Day: Wiring the circuit
  + Learning objective:
    - What is a breadboard?
    - How to wire a breadboard to an Arduino
    - How to wire LEDs and resistors to a breadboard
* Second Day: Arduino programming
  + Learning objective:
    - Basics of Arduino programming
    - Program the Arduino to make the circuit work
* Third Day: Additions to the traffic light
  + Learning objective:
    - How to wire and program a pushbutton to create a pedestrian crossing
    - How to add more LEDs to the circuit to create a traffic junction
* Each student will leave with:
  + All notes given to them
  + A completed Arduino project with a flash drive for their code
  + Access to the Google drive account for notes and other class materials