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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: Soldering
  + Learning objective:
    - What is a PCB?
    - How to solder
    - How to test LEDs on a breadboard to make sure they work
* Second Day: Continuing soldering
  + Learning objective:
    - Finishing up soldering of 68 LEDs onto PCB
    - Possible introduction of how to program the Arduino
* Third Day: Grand Finale
  + Learning objective:
    - How to wire an Arduino to a PCB
    - How to connect an Arduino to an external power source
    - How to program an Arduino to create light patters with LEDs
* Each student will leave with:
  + All notes given to them
  + A completed Arduino project
  + Access to the Google drive account for notes and other class materials