Electro Goals

What about educational kit/info?

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| **Week** | **Day** | **Penn State** | **Belgium Campus** |
| Week 11 | Wed |  |  |
| Week 12 | Mon |  |  |
|  | Wed |  |  |
| Week 13 | Mon |  |  |
|  | Wed |  |  |
| Week 14 | Mon |  |  |
|  | Wed |  |  |
| Week 15 | Mon |  |  |
|  | Wed |  |  |
| Week 16 | Mon |  |  |
|  | Wed |  |  |
| Week 17 | Mon |  |  |

Node-RED related

* Get connected to new Wi-Fi with new server IP and port
  + PSU side? Wifi-Iot?
  + FV: First step get connected with hard coded IP and PORT
  + FV: Second step can we set the IP and PORT on startup BC/PSU investigate locally im thinking it can be part of the documentation as these kits will be sent to various schools with various public IP addresses
* Get sensors to send data to node-RED
* Update dashboard UI
* Have node-red detect if not enough water/light

Dr. J: Does NodeRED have the ability to control the arudino locally? Can it send commands?

* Control anything from NodeRED to physical hardware here at PSU

Documentation

* Create basic circuit diagram for sensors
* Add all commentated code to a word doc
* FV: Same as Previous team as all groups can we create a GIT Repo where we can push all code etc for future groups, let me know what you need
* List our bill of materials
* Electrical Safety
  + What does this task look like for your team?

Arduino Coding

* *Maybe* get Arduino to measure & adjust nutrient levels autonomously
  + OK, this could be done if you have time

Wiring

* Create enclosures for Arduino + sensors
* FV: will this be a 3D print design some CAD work
* Cable management for hydroponics system
* FV: is there a few nice samples of doing easy cable management – If cable ties and a young group they will have to cut alot with wastage something to think of maybe
  + Maybe velcro?