Over the week of 9/28 to 10/2, I have mainly been focused on schoolwork and college applications. As such, this week's recap might be a little shorter than usual.

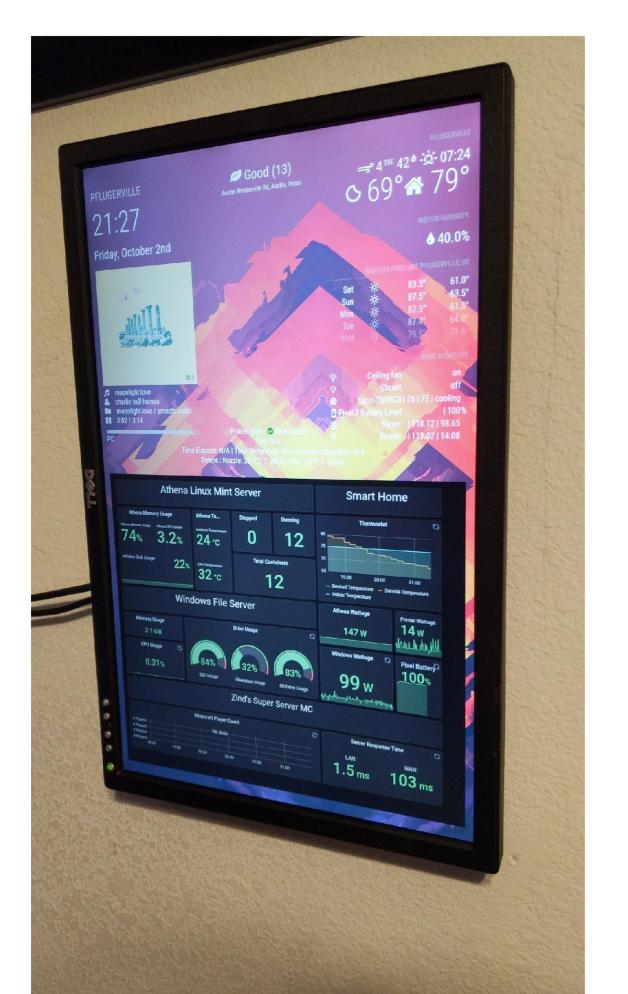
Most of the work that I have had the opportunity to do has centered around the "smart display" that I've been working on for a while now. It's likely going to be my next youtube video if I don't get around to laser cutting in the next week. I've got the initial script done for it, but as I'm still new to this I plan to run it through a couple of rounds of editing before recording the footage for it. It was a pretty complicated process to finally set it up the way I wanted, but I think I can finally be done with the project.

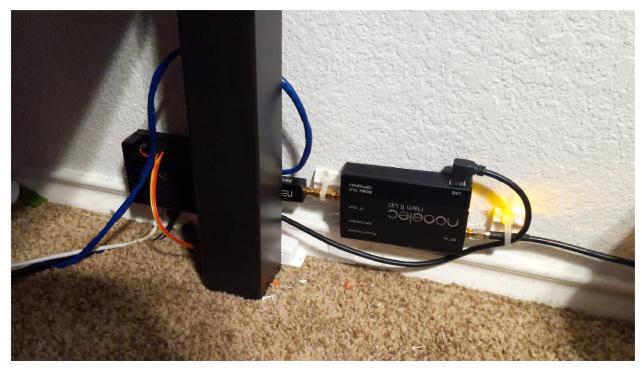
In terms of the actual changes I made, I installed InfluxDB and Grafana on a raspberry pi, reinstalled HomeAssistant and MagicMirror, and moved the raspberry pi from its unsafe "zip tie" case to a proper aluminum heatsink enclosure. In order to provide data to InfluxDB, I also had to install its companion app, Telegraf, onto my Dell server and my file server. In the end, I've got access to a ton of data points and a ton of flexibility in how I display it. For now, I'm keeping my graphics fairly standard, but as I slowly grow and refine my homelab I should be able to add to it. This is a project I've had in a semi-complete state for a while, but haven't gotten around to finishing until now. Next comes the real challenge: making a cohesive video out of it.

For the RGB panels, I'm currently researching the best way to etch the pattern into acrylic. I'm debating whether to do it in cad or as a photo raster in something like AutoCAD. I'm most likely going to create an outline, import it into AutoCAD, and draw on the pattern from there. I also need to find a better source for acrylic, as the one I planned on using just doesn't seem practical with its shipping prices.

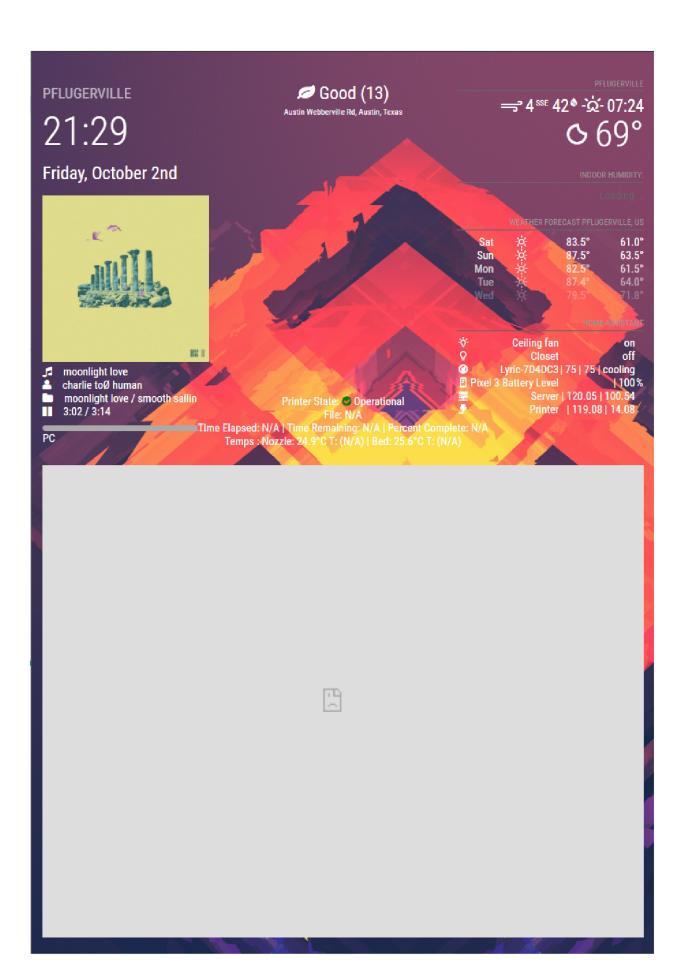
That's about it for this week, but in the coming weeks I plan to begin the creation of my next video, etch a test piece of acrylic, and finally update my website with a full "project progress" section and dynamic youtube updater.

Photos of current progress:





(Raspberry pi, Sdr, Ham It up, DHT 11 Sensor)



(Screenshot of Magic Mirror) (Grafana only shows locally)