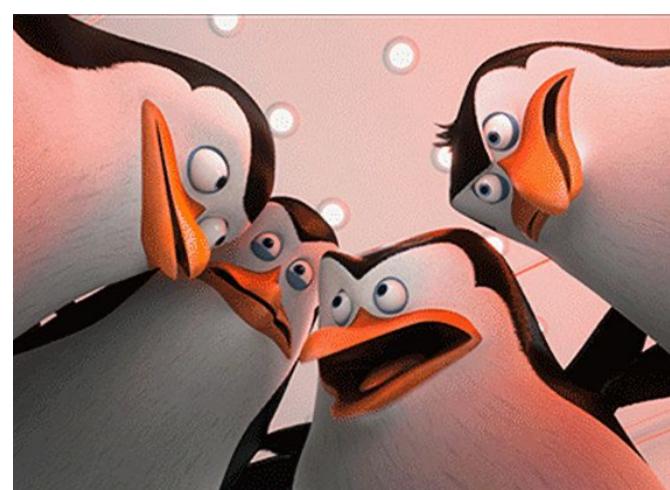


Sophie Weidmann, Robotics F2

For best reading experience, please play [this music](#) at about $\frac{1}{4}$ volume.



 Alright, here's the plan

I'm making a loom

I'm calling it Project Arachn

'cause it's spidery and hubristic

It's gonna be a tool for future artmaking, so it needs to be able to accept a pre-programmed pattern in the form of a bitmap or something. I'll write one for demonstration in critique. How hard would it be to build my own library for Arduino?

The actual pattern development won't be difficult, but it'll take time to develop a library of them. I'll eventually keep them in a github repository, which is beyond the scope of this assignment.

What separates my thing from (very expensive) purchasable looms is

- A. my open-sourciness. Open source mentality? Oh! open-sorcer
 - B. the ability to toggle “glitches” or loom self-determination

Existing electronic looms¹ operate on either servos or pneumatics, and are prone to misfiring in a particularly hot and/or humid environment. As such, a DHT11 is the obvious choice for environmental sensation the loom should respond to.

I was briefly considering a fitbit situation (blah blah meditative art reasons), but hand/wrist jewelry aren't compatible with weaving, and I don't want to have to deal with