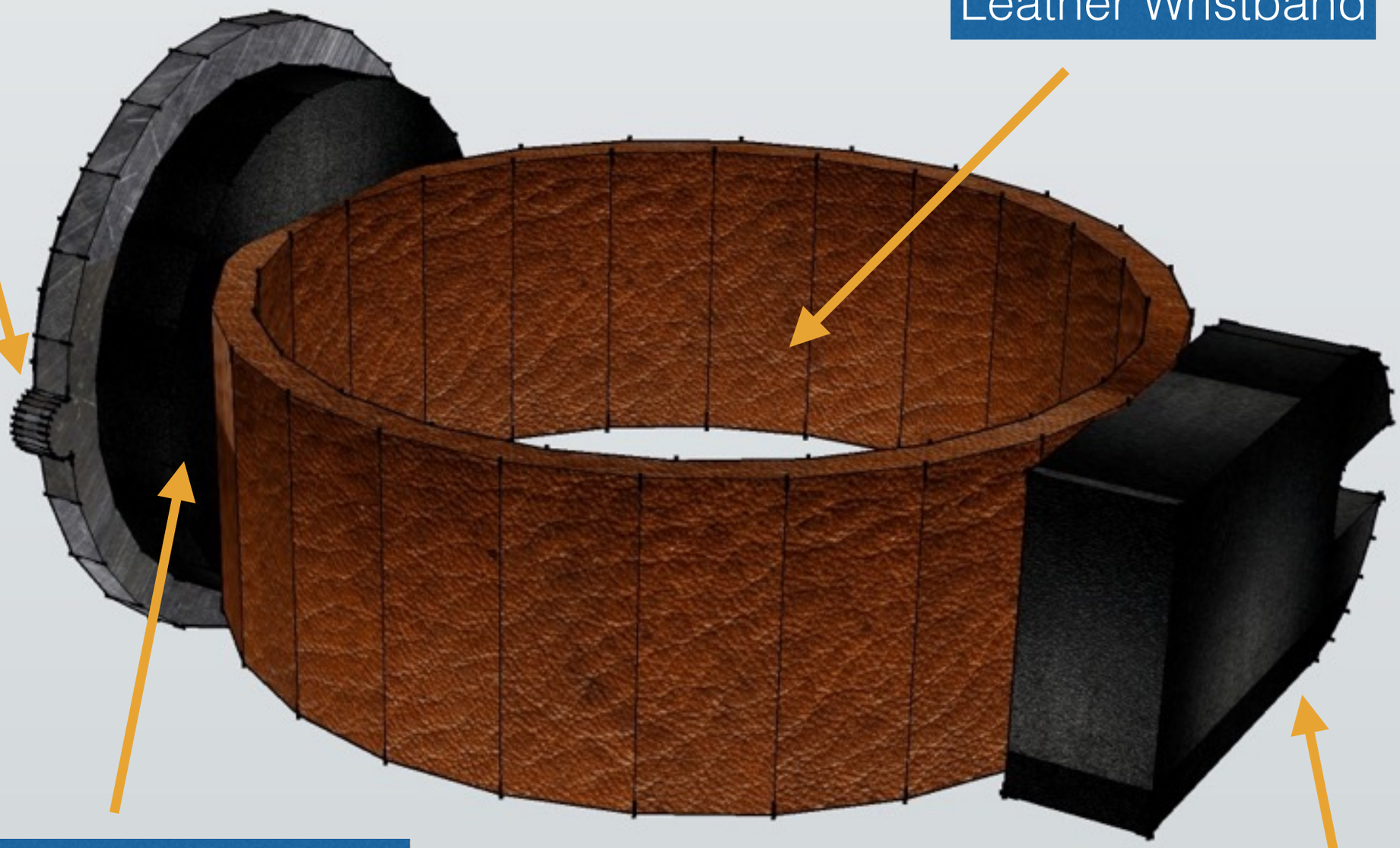
MyBand

Wrist band “wearable” module for the MyStomp Expression System

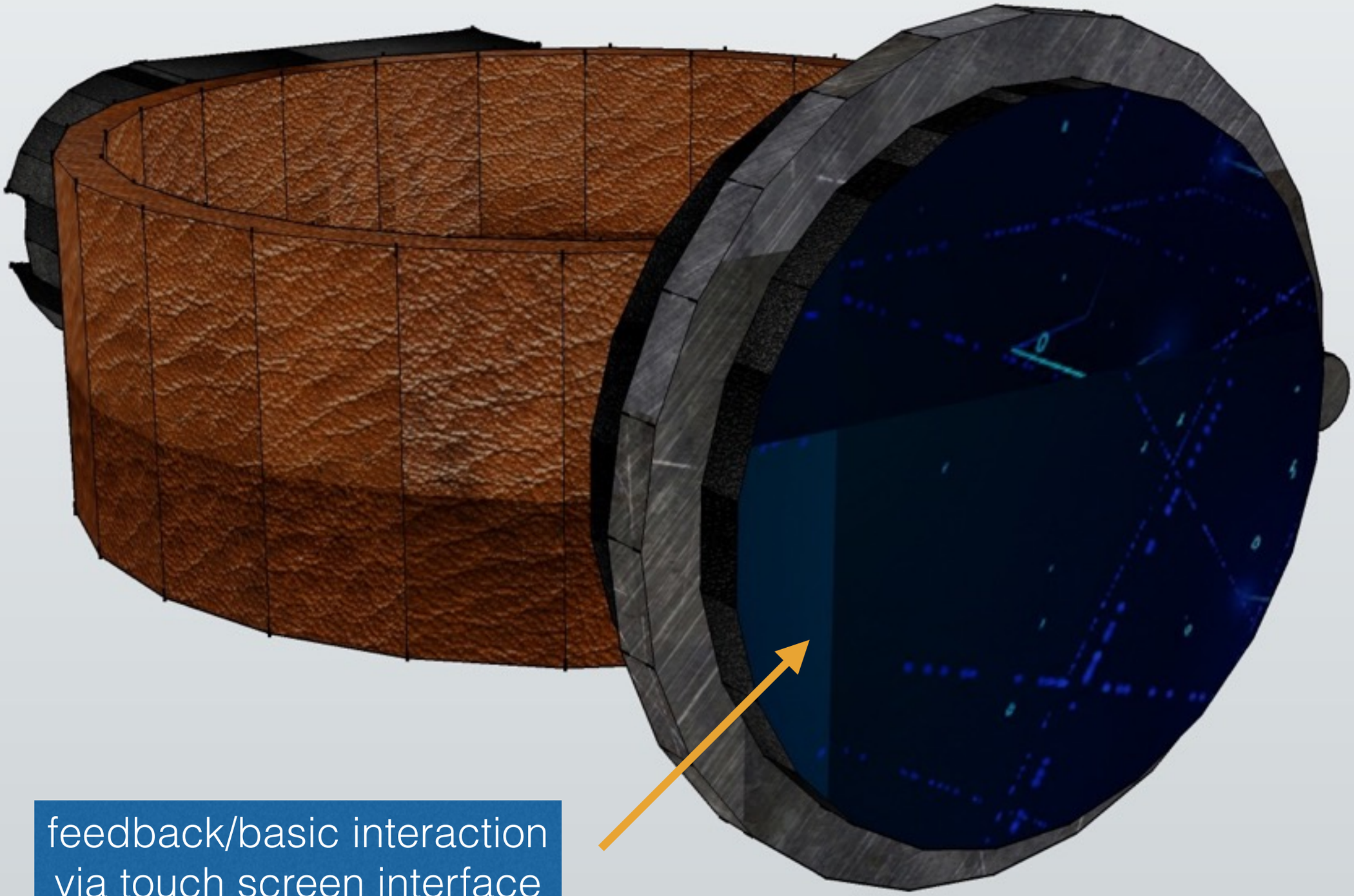
rotating dial with orientation bump

Leather Wristband



Sensors (accel, gyro, etc) housed inside main module

Electromagnetic Resonator Module and pick clip


feedback/basic interaction
via touch screen interface

My name is Nathan Shaw, my BFA final project is designing and building a wireless, digital expression box (a stompbox but with added features and functionality). The project is intended to be expandable with modules for instruments and players. The “MyBand” will be the wearable extension for the My-Stomp Expression System. It will be used to interface with the My-Stomp Expression System environment and to provide extra sensors and points of interaction for the system.

In performance environments it will give the musician a way to interact with their My-Stomp expression pedal without even approaching it. It can be synced up to lighting systems or even pyrotechnics (e.g. the colors of the house lights could be mapped to the accelerometer on the Band). In performance environments the Band can provide pedagogical feedback to its user in addition to its standard functionality; such as speed and intensity of strumming as well as help guide the player through their practice routine. The Band will have a built in electromagnetic resonator (ebow) built into the top as well as having a clip to hold extra picks. Additionally the Band will be able to start/stop recordings, metronomes and other utilities already present in the My-Stomp Expression system.

The Band will most likely be constructed out of standard watch materials; with a leather or woven band and some form of durable metal or plastic for the body. It will be worn on the wrist of the performer, although it is a band and could be placed on the users ankles as well.

Direct user interaction will take two forms: a small multi-touch screen as well as a sliding ring around the faceplate.