Group 11: Michelle Le, Argho Datta, Nicholas Iglesias

Week 4 Report

Thurs 09/20

In designing the upgraded jig for Keith's group, there are several options we are looking at to tackle the time-consuming nature of threading the carbon fibers.

- Different design, but same process
    - Rounded corners will allow for the carbon fiber to be threaded more easily.
    - Different material prevents the carbon fibers from sticking to edges.
- Different design, different process
    - Eliminate threading of the carbon fibers by laying the fibers into an open faced jig, and close the jig with a latch upper.

Tues 9/19:

Meeting with Hengen Lab

The three of us now have swipe access to the lab and maker space. We had a handful of clarifying questions to ask Kieth and a few ideas to run by him. Keith showed us the Slim Stack connectors that make up the eCube headstage. We got a better understanding of how a functioning carbon electrode array would look and fit on a mouse's head. Keith demonstrated how carbon fiber electrodes are currently assembled, and we witnessed how tedious and time consuming the process is. We are hoping to make a some changes to the 3D print file to help the lab start making the electrodes more quickly.

We talked to Keith about our Molex to Omnetics FFC idea and he loved it! He thinks this would provide a marketable solution to a problem many labs deal with. He also gave us a tip to make a Omnetics to Omnetics design that would be even more marketable/ patentable.

Wed 9/20:

Team Meeting

Nicholas made several calls to FFC manufacturers, searching for someone who could provide what we need in an appropriate quantity and price point. We made edits to our Scope in preparation for a re-submission.