

Week 11 Report

Group Members: David Jones, Brennan Kandalauft, Luis Ruiz

Client: Keith Hengen

Project Status: This week was marked by trials in coating the carbon fibers with a biocompatible, reversible polymer. We trialed PEG 8000 as a viable solution, however quickly realized that we would need a more viscous molecular weight (MW) to satisfy our needs. Instead of ordering a different MW, we are trialling a polyvinyl alcohol (PVA) coating. Additionally, we are 3D printing large-scale jigs in an effort to optimize the process that feeds the carbon fibers into the PCB. This should help us think outside the box and optimize the solution rather than just working with what they currently use. The reactive ion etching equipment is still broken, and we likely cannot test it until the first week of December or later. However, we feel that an established solution such as this should be doable with one semester of testing, especially with the help of Rahul Gupta.