Week 20 Report

Group 1

Group Members: Julie Solomon, Kate Kimbell, and Maggie Ruding

Client: Rex Clingan

Project Status: This week the team met twice at Rex Clingan’s office/inventor space. The team finalized the extraction unit’s design and created a digital schematic of the extraction unit. Julie started writing the Arduino code based on the finalized design. Maggie sewed several bags from hemp cloth for both the loading column and the oil trap. Kate prepped the hemp fiber tow for use by rinsing it in boiling water and soap and combing through it. The team also tested the use of flow-restricting orifices to scale down the volumetric output of the pump.

Next Steps: In the upcoming week, the team needs to buy an Arduino Uno and the appropriate wires, resistors, transistors, etc. Additionally, the team must start discussing how to verify and validate the function of the extraction unit.