For preprocessing we will use bandpass and notch/bandstopp-filter. ICA or moving average could also be an option if necessary, depending on the signal (eye blinkings).

Feature extraction: Common Spatial Patterns (CSP). Two classes (how many?)

Classification: Support Vector Machine (SVM)

We will divide the work into three parts, preprocessing, feature extraction and classification. We will work together in every part.

Our solution for the system is that we get the signal into MatLAB through LabVIEW. Then the signal is processed and analyzed, and then sent to component 3.

The data sent to component 3 has to be discussed on what type of signal they want to receive. Also, what type of signal we can provide to them.

* Unsure how CSP works, need to discuss with Tidare.
* Mental states, discuss with entire project.
* Protocol for component 1, acquisition. (Which hand, eyes states).
* Check impedance, be sure to only use when viable/green.
* Shorter and more concrete signals. Also, resting signals where you do nothing.