Brain-Computer Interface (BCI) Controlled Wheelchair Driving Aid

Research Assistants: Nikhil Shinde, Rayton Espiritu & Graciela Cortez

- Enables user to operate an electric wheelchair using mental thoughts (EEG signals) and facial expressions (EMG signals)
- Cost per driving aid: less than $200
- Design utilizes off-the-shelf components to reduce cost and development time
- A healthy subject is able to operate the wheelchair with 25 - 30 mins of training
- Project funded by NSF
CSUF Students Develop App, Hardware for Mind-Controlled Wheelchairs