**Steady Hand**

Parkinson’s disease ravages the body in countless ways. More than 10 million people worldwide suffer with the disease. To the naked eye, only the tremors are visible to those who do not experience what it does. Parkinson’s Disease breaks down the neurons in the brain resulting in a plethora of symptoms such as; tremors, uncontrollable muscle contractions, uncontrollable bladder, even amnesia. The Disease is still very much a mystery in both cause and in solution. As of now there is no cure or reversal of the degeneration of neurons to counteract the disease and it is not yet able to be traced back to its origin. Because the symptoms usually do not take effect until later in life it is almost impossible to know that it is affecting you until it shows itself.

The Steady Hand is being created to aid in the control that has been lost in the lives of those who suffer with Parkinson’s disease. The Steady Hand is not a cure, the main purpose is to help stabilize the tremors that occur within the hands of the owner. The physical design of the Steady Hand is that of a glove. The glove is to be designed fingerless to allow the user the use of a phone, pencil, etc. To counteract the shaking, we will utilize a servo that will rotate the user’s wrist to micro correct the twisting motion. It will be fed input by a Arduino that is taking readings of a gyroscope in real time.

**Keywords**: Parkinson’s, tremors, stability, servo, glove