

Team ___15043___ **Engineers** _____Nick and Christine_____

What do I plan on doing to ensure that Team P15043 has a successful week 5 demo?

1. Perform Engineering Requirement S11 Test Plan: Pressure motor motion can withstand (Nick and Christine)
2. 3D Print first cane handle prototype (Nick)
3. Machine bearing armature for feedback (Christine)
4. Show Dr. Iglesias and ABVI the first printed prototype handle (Nick and Christine)
5. Make changes based on prototype feedback received (Nick and Christine)
6. Prepare for CDP31 Test: Cane Handle Heat Build-up Analysis (Nick and Christine)
7. Get the semi-final CAD file to Lindsay so she can send it to the injection molding company for a quote (Nick)

You will answer these three questions when you submit at the end of week 5.

1. Printed $\frac{1}{4}$ of the handle (Nick)
2. Gave Lindsay CAD file to send to the injection molding company for a quote. (Nick)
3. Machined bearing armature (Christine)
4. Thought more about how to do the heat buildup test. (This cannot be accomplished until the cane is put together and functional. We are considering finding a best fit curve for the data from last year and extrapolating it to 8 hours. Some discrepancies would need to be accounted for like two motors instead of one and inner handle diameter differences. We should be able to account for these and at least we would have a rough idea of what the heat buildup will be, until we have more of the subsystems assembled.)
5. Items 1, 4, and 5 were dependent on printing the entire handle. This was delayed due to printer availability.