

January 10: Started work on making a basic frame from a wheelchair. There are 4 large castor wheels on an adjustable frame with 2 L-bars supporting the structure. This will allow for better support and integrity of the frame as we build upon it.

January 24: Planning out better layout for kar. We made a plan to put the different areas such as a seat, battery pack, foot rest, pedals, and the wheels. This will be improved upon in the future.

January 26: Drilling into frame for installation of structural supports and improving upon the integrity. We are also installing a better battery pack mount and front foot rest bar.

January 31: Finalized and installed motor system for kar. This will run the motor smoothly and allow for the shaft to rotate when attached to the shaft.

Feb 2: Looked for different materials we could use to improve upon the motor bar. Looking for metal bars, but failed to find any.

Feb 4: Started work on mount. Drilled pilot holes, and made a singular shaft to mount the wheel, with PVC hole guide. This will allow for proper rotational balance and speed.

Feb 7: Worked with different materials to make mount, and cut out holes to make proper mount to put steering wheel shaft in. We added a second mount to better stabilize the shaft.

Feb 11: Wobbly Steering Motor Mount. Fixed by 3d printing and cadding O-Ring to stabilize.

Feb 14: Got the Motor to work for the first time. Connected the motor to the 120v outlet through the power conversion box. First time driving the car, I had the issue of grip.

Feb 23: Finished drive shaft v2 with newscaster. This was the new wheel castor, rather than the metal ball castor we had before.

Feb 25: got the killswitch to work. Installed the wiring and improved wire management. We also mounted it to a handle on the side of the car.

March 2: drive shaft v2 broke, aluminum failed. The amount of pressure and failure of caster equilibrium put too much pressure on the shaft, rupturing the structure. We are working on a solution.

Marth 9: Back to cading, made switch mount, end caps, and redesigned the steering column. Started 3d printing parts and working on stabilizing the wheel shaft with better, double layered aluminum.

March 11: CADding of different castor sleeve mount and of the new motor system. This will help better plan and execute future designs of car.