

Schedule-

Finishing Theoretical Designs & Circuit Simulations:

- **January 1**

Ordering Parts:

- **January 15**

Produce & Assemble Project:

- **February 1**

Perform Tests & Revision Tweaking:

- **February 15**

Progress-

So far, we have been tampering with the coils. I have made several types of coils and found out that a higher gauge copper winding with more turns will produce a stronger magnetic field than having a lower gauge with fewer turns.

Things that we have done yet:

- Ordered Ferrofluid
- Made 3D designs of the model structure
- Acquired multiple types filament material for structure production
- Started creating Coil windings & testing Power requirements
- Simulated potential circuit designs to control coils
- Created and exported codes to Arduino & tested outputs successfully
- Starting circuit construction