Capstone Milestone Targets

2/6 - Groundwork

- Receive all materials
- Construct timeline
- Plan wood cuts
- Construct data subsets
- Set up workspace

2/13 - Prep Materials

- Join Dallas Makerspace
- Complete woodshop safety training class
- Measure and cut all wood
- Prep and stain all pieces
- Organize supplies by installation

2/20 - Story Patterns

- Construct cube frame and base
- Sew fabric diffusion tubes
- Set up Arduino control system
- Install LED strips
- Program light patterns
- Attach leaves and dandelion seeds
- Draft documentation

2/27 - Forest Network Installation

- Calibrate fluid mixtures
- Order additional mica
- Construct base and top cap
- Install peristaltic pumps and fluid reservoirs
- Set up Arduino control system
- Program drop timing
- Draft documentation

3/6 - Gravitational Waves

- Sonify dataset
- Assemble main housing and electronics compartment
- Mount steel plate with isolation system
- Install transducer and amplifier board
- Set up Arduino control system
- Program wave patterns
- Test and calibrate sand distribution
- Fine-tune vibration control
- Draft documentation

3/13 - Bee Communication

- Construct main frame and layer spacing system
- Build and install lightbox
- Make EPS files using mapped coordinates
- Use laser cutter to cut paper
- Paint with watercolor
- Install LEDs between layers
- Mount visualization layers
- Draft documentation

3/20 - Final Testing and Documentation

- Run extended operation tests
- Make final adjustments
- Complete documentation
- Order GPS beacons (if sonification is possible)

3/27 - Sonification (Stretch Goal) or Contingency

- Sign up for echoes.xyz
- Sonify Story Patterns, Forest Networks, and Bee Communication
- Create sound walk

4/? - C3 Showcase