Independent Study S2021 Deliverables for Dr. Knisely:

**Idea:** Transiently-powered tracker with battery-powered clock - A watch-like device that keeps track of locations from a starting point, and later allows uploads to an application that allows the wearer to name locations, unless it is already mapped, so the wearer can view where he traveled.

**Usefulness:** Facilitates mapping in places that are potentially unreached, for example unmapped places in a country like Haiti. Anyone can wear this, but travelers, especially ones walking, can use to accurately keep track of and map where they have been when travelling in places where energy is scarce.

**Power source:** Kinetic and solar energy / rechargeable battery

**What I am measuring:** distance ~ change in displacement and direction

**Investigation on power source:** Needs doing.

**Hardware & compilation of the hardware:** Needs doing

**Paper on device operations (Project Paper):** Needs doing

**Semester Outline:**

**January:** literature survey

**February:** TBD – Dr. Knisely

**March:** TBD – Dr. Knisely

**April:** TBD – Dr. Knisely