

## Aidan Williamson Work Plan

**1. Personal Goals:** During my stay at FeF I will be a part of the **Learning Community**. This means that the nature of my work will depend on the instructional resources available. Keeping that in mind, I do wish to primarily focus my attention on the **Fabrication Track**. My personal goal is to learn enough within my first two weeks that for the remaining time at the farm I can begin to contribute to the production of the GVCS in very tangible ways. Then, as I develop my own skills, I will reciprocate my experience via a wiki log and personal videos in order to help the Operations Director and Productions Director create an effective learning platform.

**2. Day-to-day:** The projects currently in development seem to be (based on daily standups I have watched) the CNC Circuit Mill and the Ironworker, as well as the improvement of the LifeTrac. To learn the fundamentals of constructing these machines, I will need to study not only the fabrication techniques, but also the physics that makes them possible. If I know what lesson I will have ahead of time, I will study the wiki and other resources to understand the lesson conceptually beforehand. Then, daily (hopefully), I will post a video update and possibly a textual log entry in which I will detail my experience that day. In this sense I will be prototyping the **OSE Learning Community**. I am aware that I will mainly be at the disposal of Marcin et al. so I will not become overly involved with the specifics of my stay. I do wish to research the **GVCS Wind Turbine** in my spare time.

**3. Side projects:** Besides researching the Wind Turbine, I also have recently acquired enough PV cells to fabricate a 12V, ~60 W solar panel. If it can be used at FeF, I would gladly get that up and running, and tied into the FeF grid. I also plan on improving my CAD skills. I will have a copy of Solidworks at my disposal so I will be able to learn how to operate that software in my spare time. I also want to develop my long-term collaboration plan. At this point, that would involve discovering a specific item that I can collaborate on remotely with the financial assistance of my college and intellectual assistance of my professors and peers. I will draft that while I am there.

**4. Recap:** At FeF I plan to develop fabrication skills, study the physics of the GVCS, document my experience for the benefit of future OSE Learning Community students, and begin my own research in to the GVCS Wind Turbine.