Kristian,

What follows is an account of our current progress.

We are currently on schedule, viz the Gantt chart we submitted in first semester. We have begun researching the methods by which we will asynchronously gather sensor data and upload it to our database, which we expect to have finished in the coming weeks. Further, we are on track to have a fully working prototype by the Open House on April 8th at Humber College.

All three independent hardware components have been completed, and our Android mobile application is nearly ready for release. At this point, we are focused on integration of the three hardware components into a single product. Over the coming weeks, we hope to acquire a Langstroth hive in order to integrate our hardware and begin production testing. We have made contact with people and organizations from whom we might borrow a hive. Failing that, our plan is to either build or buy a hive or suitable simulacrum. We estimate the cost of a nucleus Langstroth hive at around $50. This cost will not be included in the total build cost since we will use it for testing, and this would not be an expense incurred by anyone already in possession of a hive.

Our estimated budget for the integration phase of the project is $300 and we are currently under budget. Barring unforeseen expenses, we will not exceed our budget this term, since all required components have already been acquired.

Our biggest current challenge is testing. It will be difficult or impossible to test our final product during winter, as the bees are still clustered inside the hive. This means that any real life testing will have to wait until spring. In the meantime, we are planning on designing mock-ups to simulate expected use conditions. Thus, we must acquire a Langstroth hive, or a suitable stand-in, in order to simulate the types of bee activity we intend to measure.

Thank you,

Team Smart Hive

Roberto Loja

Yurii Sentsiv

Paul Westman