

Phase 1 Project Selection Status Report

Name: Sophie Walker

College: St. Catharine's College

CRSID: smw98

Director of Studies: Dr John Fawcett

1. Please write 100 words on your current project ideas.

I will create a tracking system for BLE tags with two modes, tracker and inhibitor. This either locates them or prevents tags within a time/distance bubble from being tracked. This tool can prevent stalking. I will adapt an open-source app and build a server. This server will store the mode of tags and implement the inhibitor bubbles and tracking. I will compare inhibiting on a local device or through the server. Evaluation includes if it is inhibiting as specified and usability. I will research current BLE systems for the detection of tags, like the expected effectiveness of detecting inhibitors and trackers together.

2. Please list names of potential project supervisors, indicating any interactions you have had with them, for example: not contacted, awaiting reply, in discussion, agreed to supervise.

Dr Markus Kuhn and Dr Ramsey Faragher – agreed to supervise.

3. Is there any chance that your project will involve **any** computing resources other than the Computing Service's MCS and software that is already installed there, for example: your own machine, machines in College, special peripherals, imported software packages, special hardware, network access, substantial extra disc space on the MCS.

The resources that this project requires are BLE tracking tags to test and create the inhibitor and tracking system, and Android phones to detect the tags which will be provided by Dr Ramsey Faragher. I also require my own machine to build the project on.