**Keylogger project progress report**

**Report**

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**Subject:** Embedded RTOS Project

c.

Related work:

Through our research we found a number of software projects/frameworks that we can use do develop our keylogger and serve as a reference. We are using a library for X11 called xlib as our primary way of interacting with the keyboard. Xlib gives functions for receiving keyboard scan codes and allows us to convert from scan codes to the actual value of the key that was pressed. It also supports international keyboards such as Norwegian.

We also found a couple of open source projects to use as reference material for how to use the xlib library. Xev is a standard Xorg program which prints out the contents of XEvents. This gave us a reference for how we can parse an XEvent to a usable key value. Xinput serves a similar purpose however it’s -–test-xi2 option gives us a reference for how to get XEvents from the whole system rather than just our program allowing us to log key presses from other programs.

d. Accomplishments so far

We have done nothing with hardware.

Software: X11, Keylogger (and it does support international keyboards), TCP\_IP server client

issues: We know when the shift key is pressed but we don’t know the modified key.

e. Future deliveries and milestones

We will be skipping the deadlines for getting the mouse and clipboard as well as the local logging.

Instead we will be writing the device driver for the keyboard.

Our earliest deadline will be for a keyboard interrupt handler. (11/13/2019)

Our final deadline will be for a keyboard device driver. (12/06/2019)

Final Project Demo:

We will demonstrate our keyboard device driver on a laptop.