Project Proposal

The primary idea is to be a "digital library". A i2c barcode scanner module reads ISBN codes, downloads the book, and serves the content via http (with only static content) or network share. The premise is that you can enter an ISBN and see information/acquire the book. A decent sized LCD/e-ink display and multiple buttons would be included to interact with the device. Additionally, the smtplib module can be used to send books to a kindle via email.

Several other ideas are below, just in case…

- Plot aircraft transponder transmissions with an rtl-sdr.

   o (or if not allowed creating my own using a mixer, demodulator, etc.) I would then plot the information on a map for the local area. This would be possible without JavaScript with python flask, having a while loop that repeats every 30s/60s to reposition the planes according to ADS-B data.

- Wi-Fi Jammer

   o placing a wireless network card in monitor mode, and sending deauthentication frames. LCD, push buttons and LEDs will be used for selection and reporting device status