**General Plan V3.0 (braille the tower of babel, the only language where input and output are the same)**

**Name of app: ProxiCane**

Cane is not natural, makes the user appear blind i.e vulnerable

Uses smartphone only, proximity light sensor to detect when user is near obstacle/wall.

User can hold phone in hand or attach it to side of arm.

No internet access required, no cloud computing needed, everything runs locally.

If lux is less than 15, (amount can adjust by user) phone vibrates progressively warning the user you are near an object. User can have multiple phones (phones are cheap and everywhere), have long battery life, can use map navigation in conjunction with app.

For example, the phone can be attached to an armband, inside a jacket, multiple phones allowing warning

Main camera is free to be used for object recognition and as a barcode scanner.

Puts old smartphones to good use, so needs to work with older android versions. (backward compatible)

Speech output to set up app, multiple languages needed.

App could also have additional audio frequency increaser.

App adjusts to time of day, locale, under tunnels…

App works under a lock screen, (phone will move a lot, inside clothing)

Android app, free (no ads or data collection) and later open source.