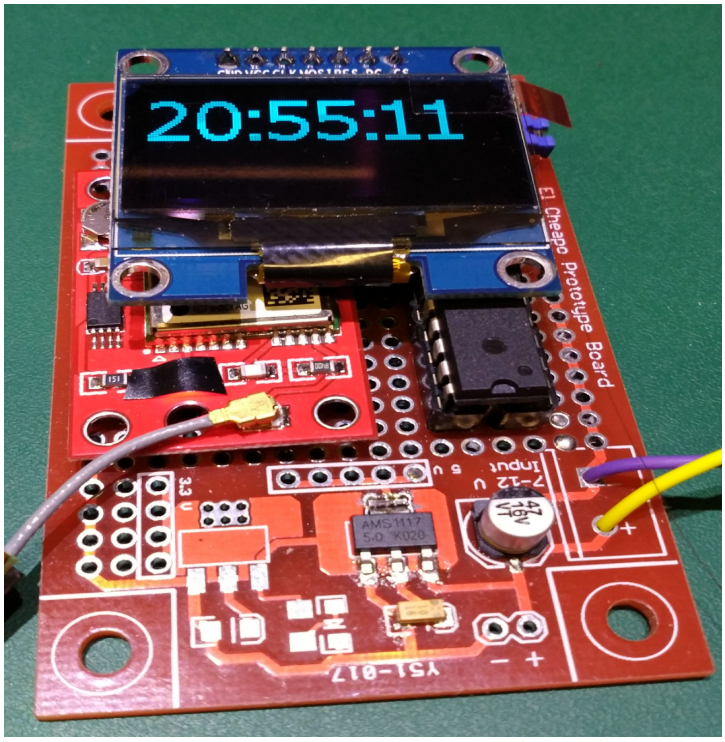
A GPS OLED Clock Project



An easy to build, GPS accurate, 24 h clock with a nice 1.3″ OLED display module. Runs on external 5 V(dc) supplied from many types of cell phone chargers.

Based on a single ATmega328P-PU micro-controller chip, a 1.3″ OLED display module with SPI interface, a NEO-6M-0-001 GPS module and a few discrete components. The clock is very easy to build.

Verdana 24 pixel high, variable width font used for large, clear font characters.

Full project source code is provided, written in assembly language for speed and compactness. OLED driver code supports OLED modules with SSD1306 or SH1106 graphic controllers. Smaller 0.96″ OLED modules are drop-in replacements for 1.3″ modules.

Required tools:

- **AVRDude software for controlling the USB-ISP-programmer.**
- **USB-ISP-programmer for flashing gps-oled-clock.hex to the ATmega328P.**
- **Atmel Studio 7 IDE if you need to modify program code.**

Contact:
If you have questions, comments, suggestions, or need help you can send me email at lynf.yyz@gmail.com.