Badge(r) Badge(r): The Story of DC2024 Conference Badge

Igor Brkić

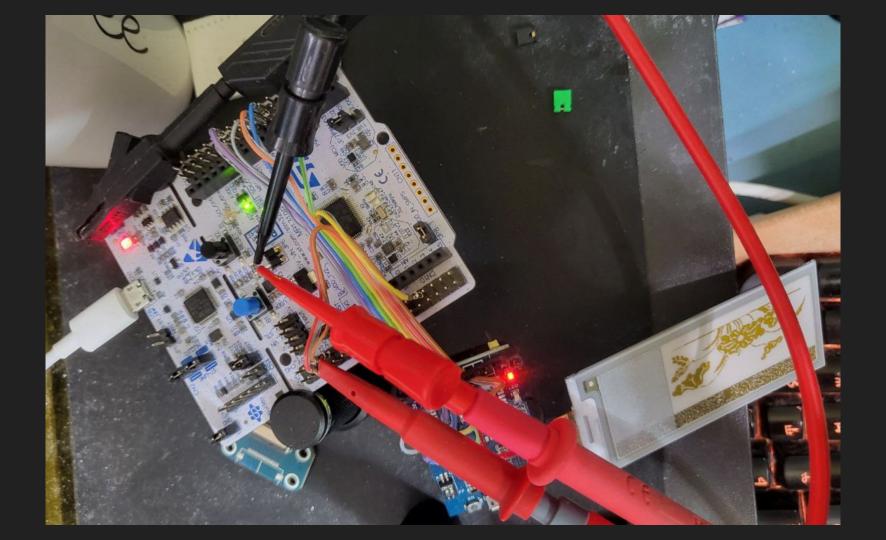
/me

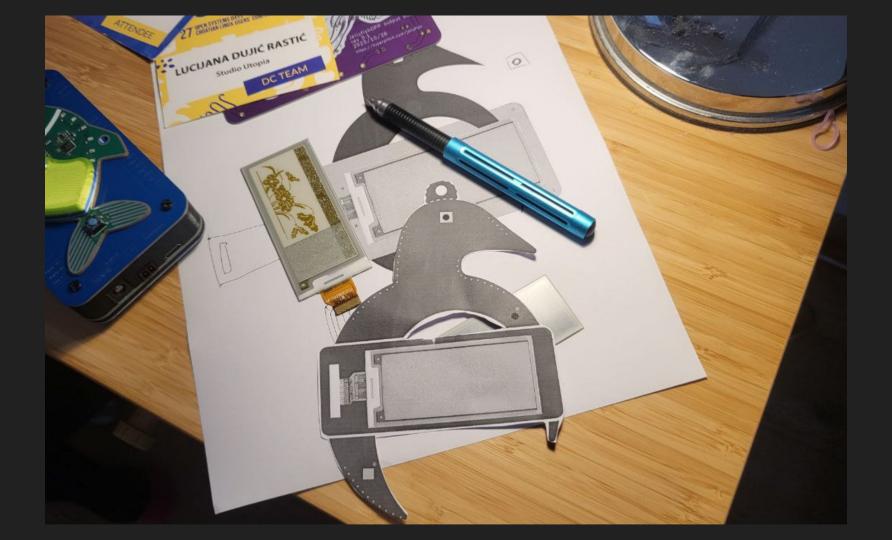
- https://hyperglitch.com
- hardware & software engineer
- does this → also for fun

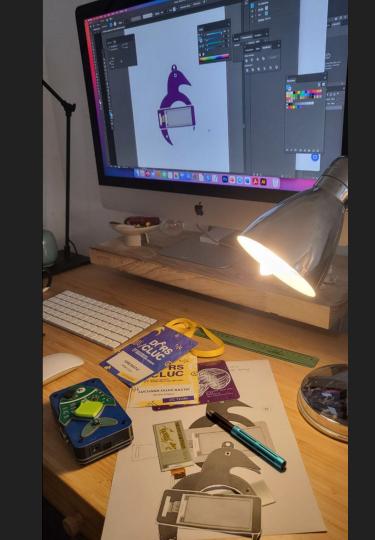
#badgelife

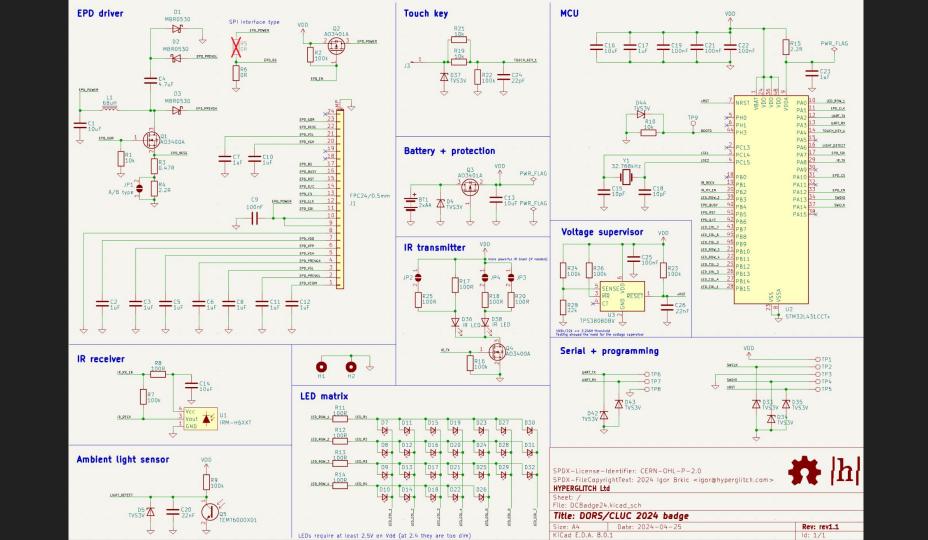
/features

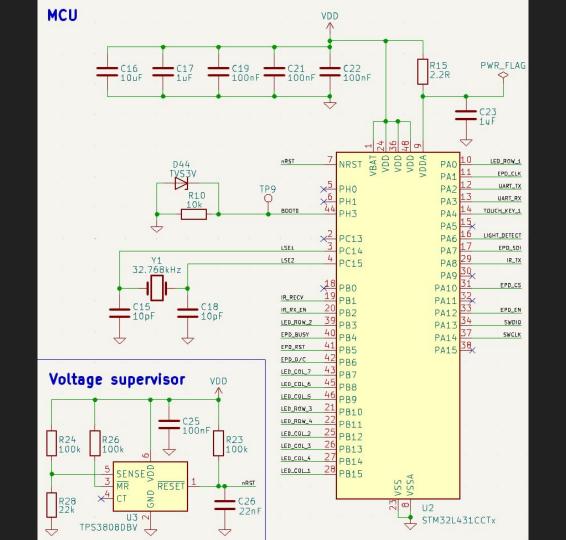
- e-paper display
- some flashing LEDs
- IR transmitter/receiver
- light sensor for configuration
- touch button

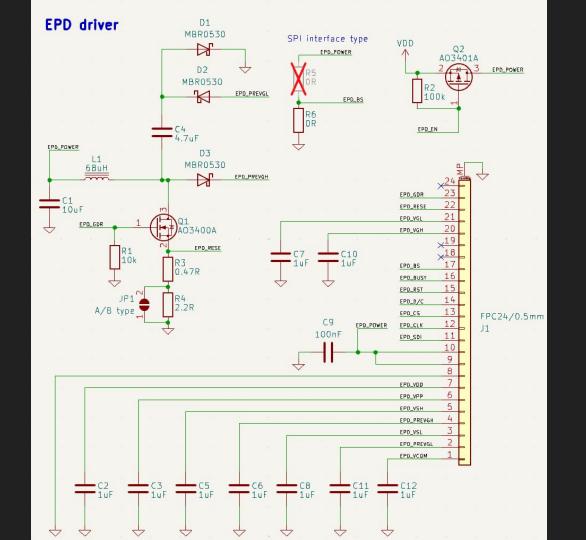




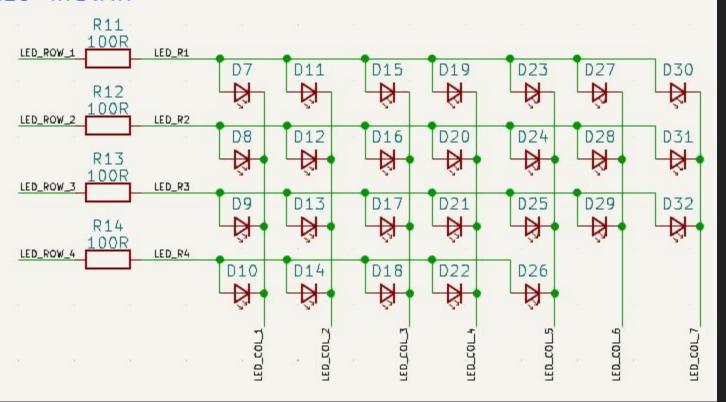


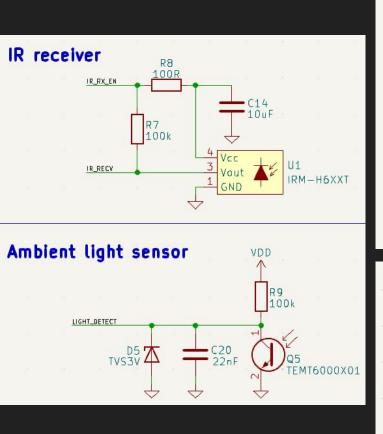


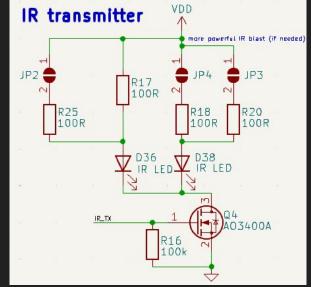


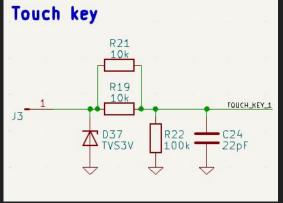


LED matrix







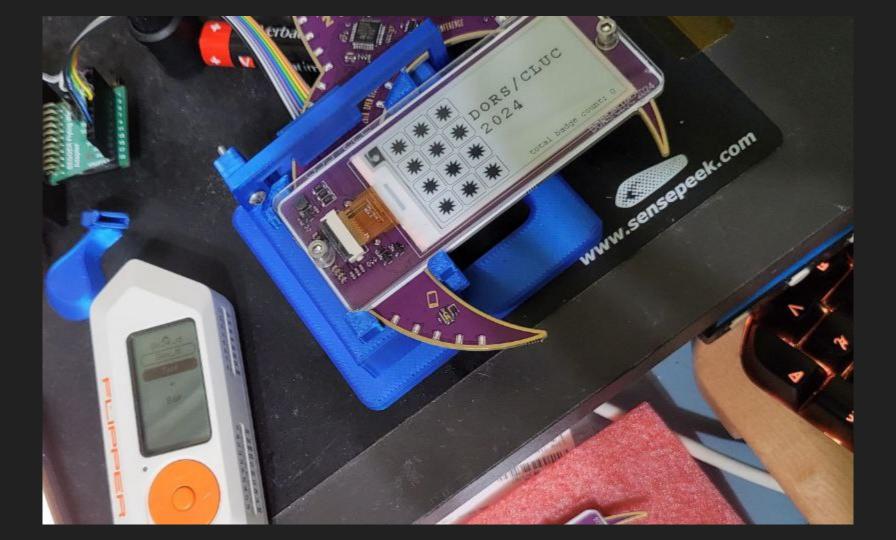






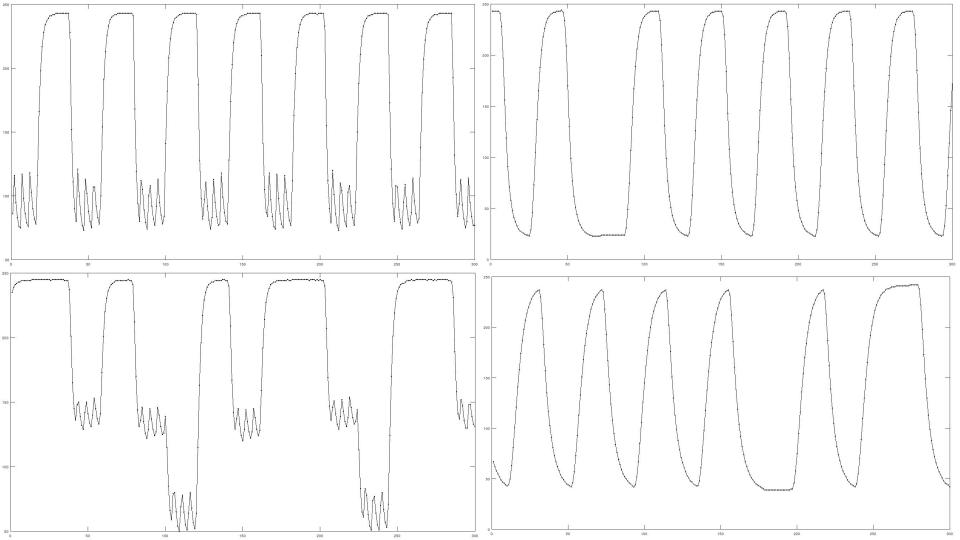


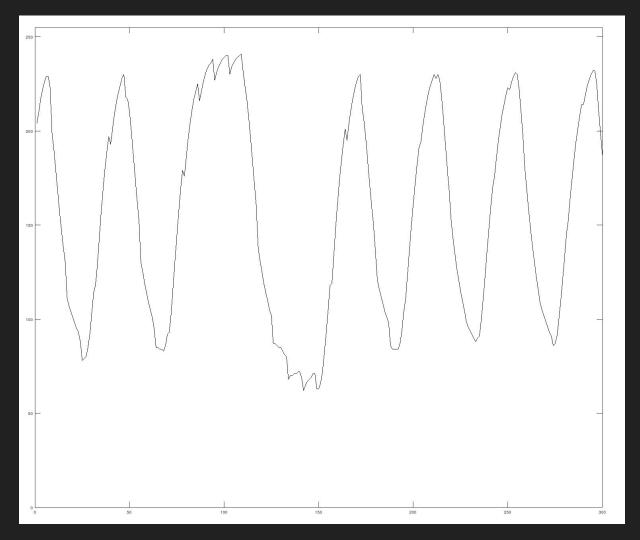




/data transfer

- Clock recovery switching is better than waiting
 - $\circ \longrightarrow Manchester encoding$
 - $\blacksquare 1 \longrightarrow 01$
 - $0 \rightarrow 10$
 - Maximum two consecutive identical symbols





https://certification.oshwa.org/hr000116.html



https://gitlab.com/hyperglitch/dc2024badge/

