



Erasmus+



Cap SLOVENIA

# Project: Badge (Update)

(Projekt: Značka)

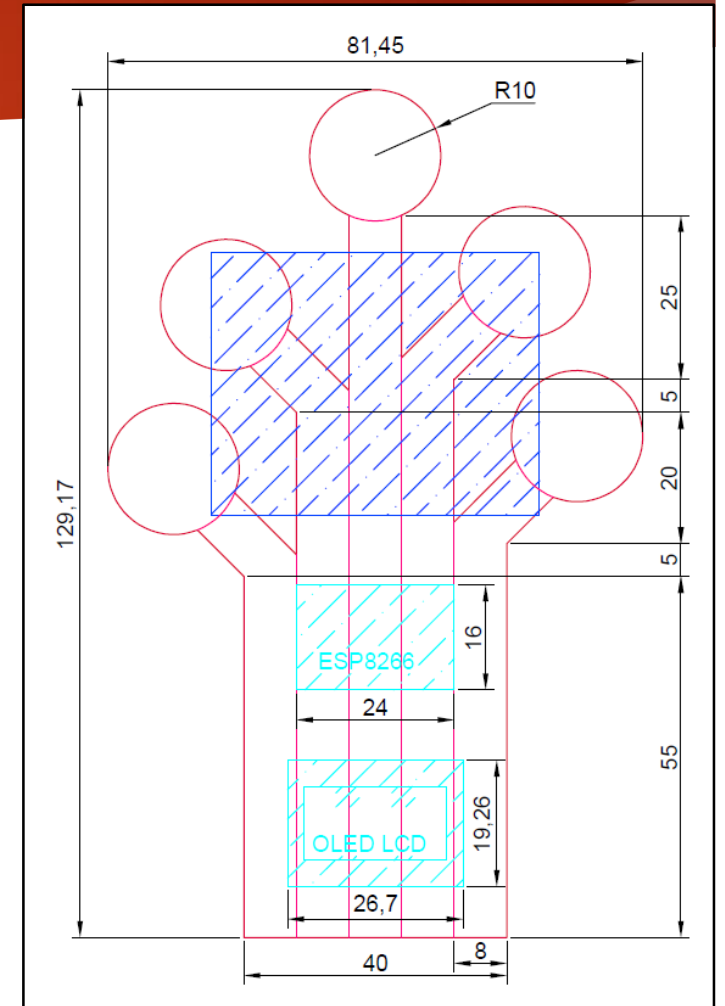
# Goals & Plans

- ▶ **GOAL:** Create a Wi-Fi enabled badge, with an LCD display
- ▶ **Features:**
  - ▶ Wi-Fi enabled MCU (Micro-Controller Unit)
  - ▶ OLED LCD display
  - ▶ LiPo battery
  - ▶ Battery charging
  - ▶ Automatic text/image updating (*Android AP or Server badge*)



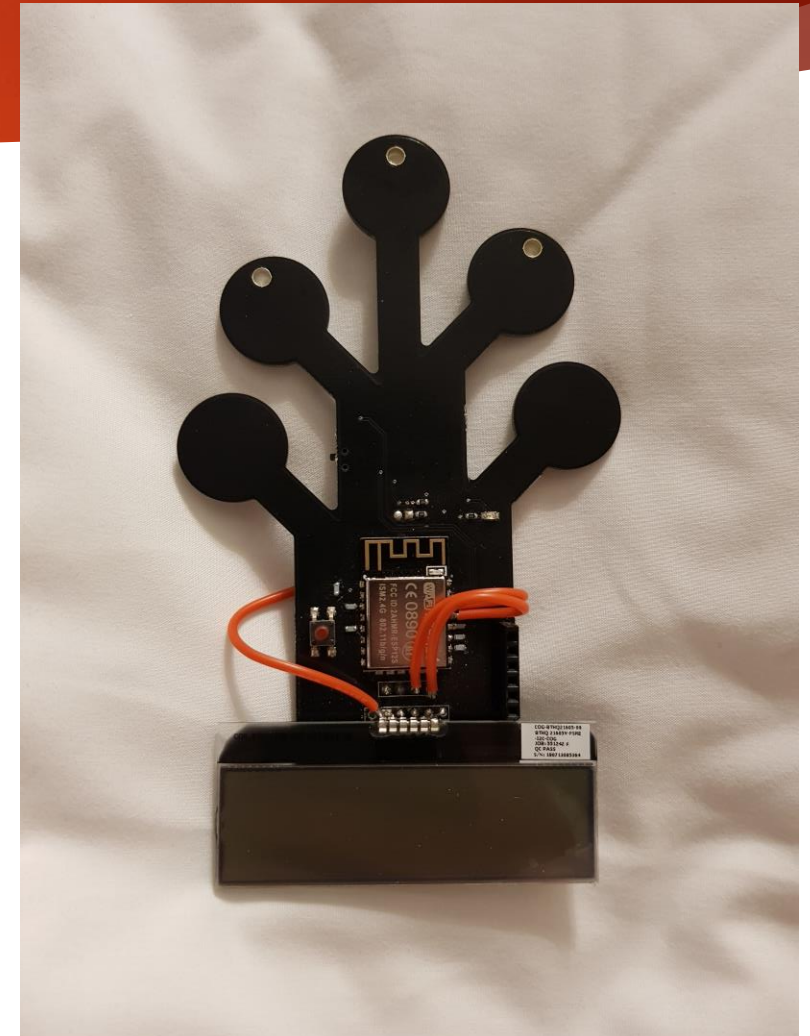
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# Current stage of progress

- ▶ Concept sketch
- ▶ CAD sketch
- ▶ Electronic schematic
- ▶ PCB design (+ 3D render)
  
- ▶ Prototype assembled and tested



# Future improvements and thing to fix

- ▶ Replace LCD with an e-ink
- ▶ Fix I2C bus
- ▶ Replace battery (bigger and stronger)
- ▶ Re-do power circuitry
  - ▶ Change battery charger and prot.
  - ▶ Change power configuration
  - ▶ Replace power regulation
- ▶ Built-in programmer (UART interface)
- ▶ Decrese LED brightness
- ▶ Change mouse-bite location
- ▶ Bigger power switch