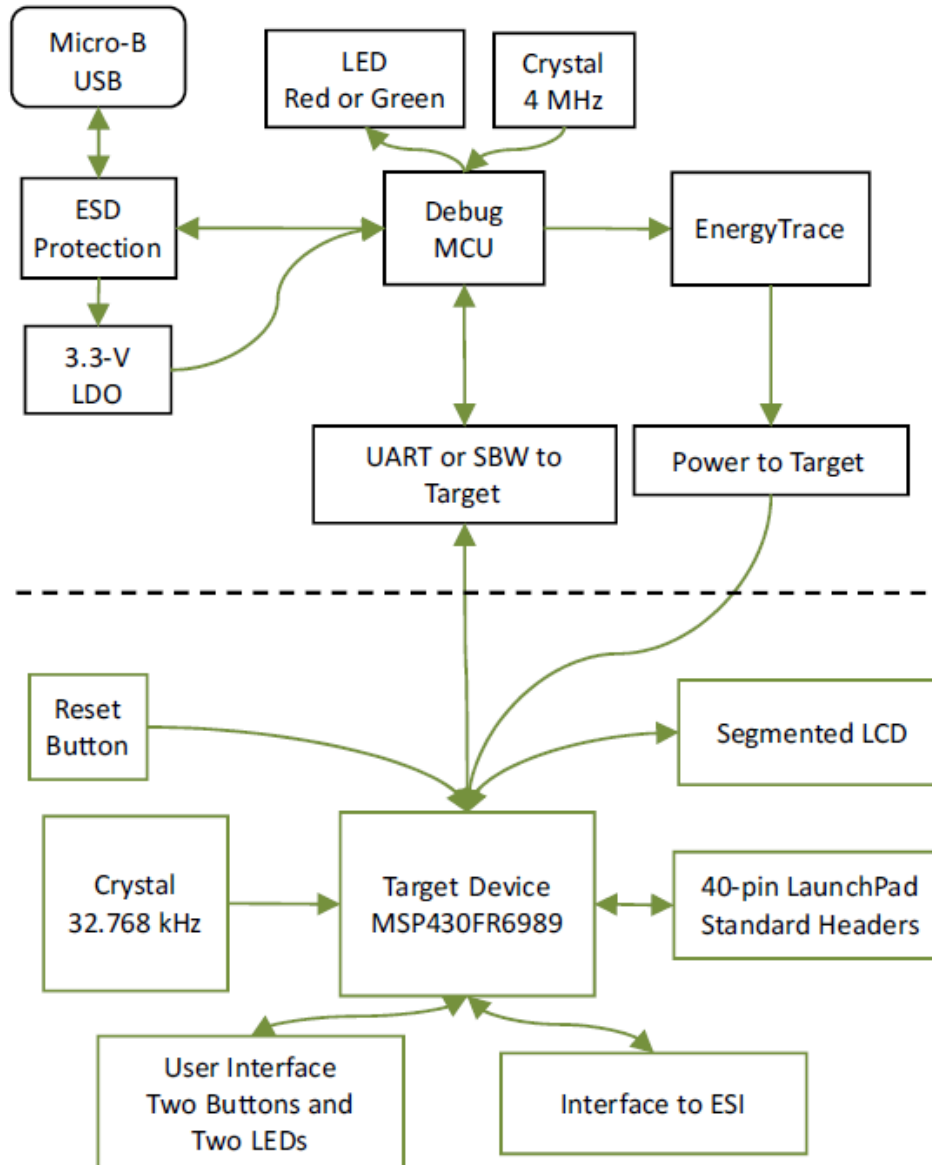


ПРАКТИКУМ ПО ПРОГРАМИРАНЕ НА МИКРОКОНТРОЛЕРИ

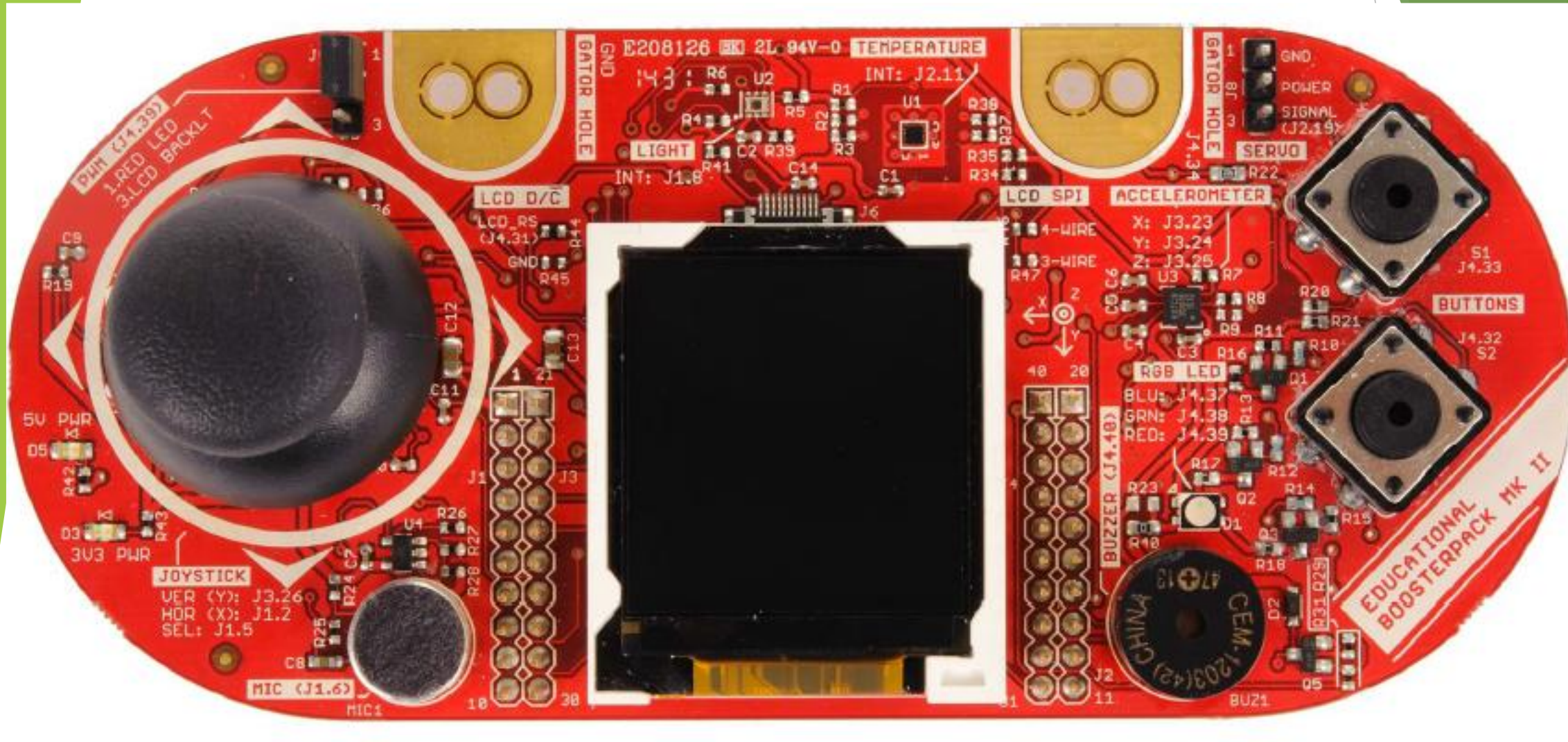
Макети

- ❑ Микроконтролер MSP430FR6989 с FRAM
- ❑ Приставка за обучение BOOSTXL-EDUMKII

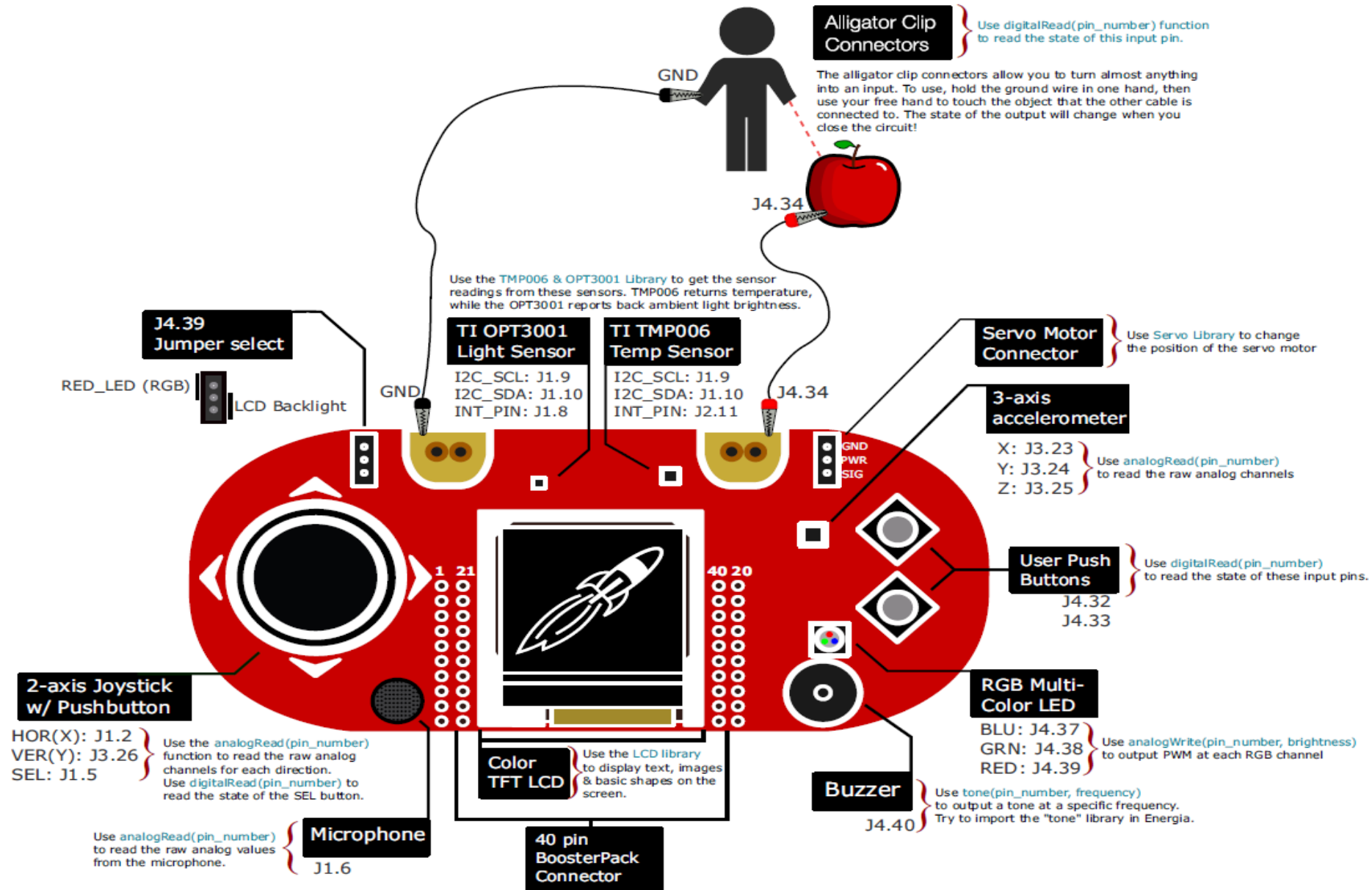
MakeT MSP-EXP430FR6989



MakeT BOOSTXL-EDUMKII



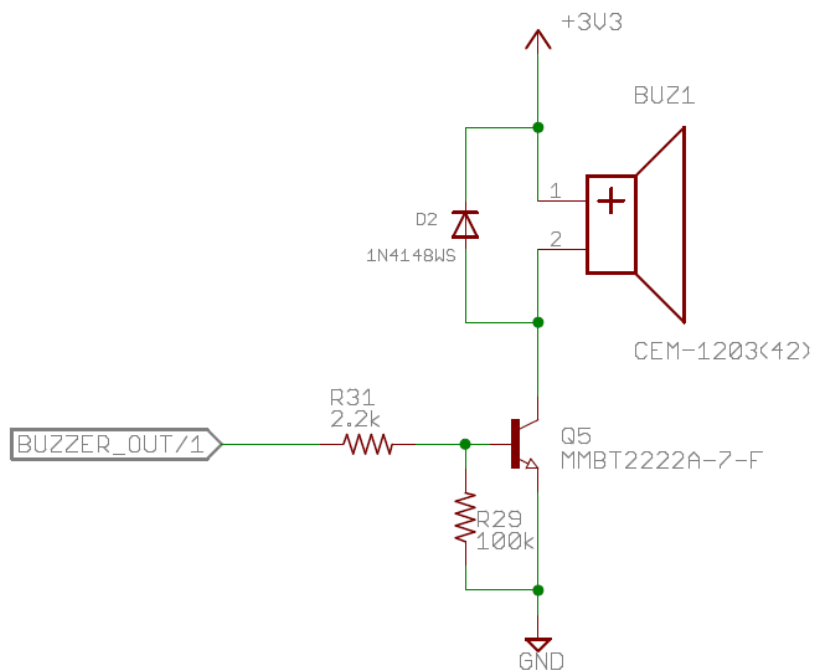
MakeT BOOSTXL-EDUMKII



Ограничения

- ❑ Извод P2.7 трябва да е винаги в логическа нула
- ❑ На извод P2.7 може да се пускат правоъгълни импулси
- ❑ Причината е показана на следващия слайд

Ограничения



MAGNETIC BUZZER

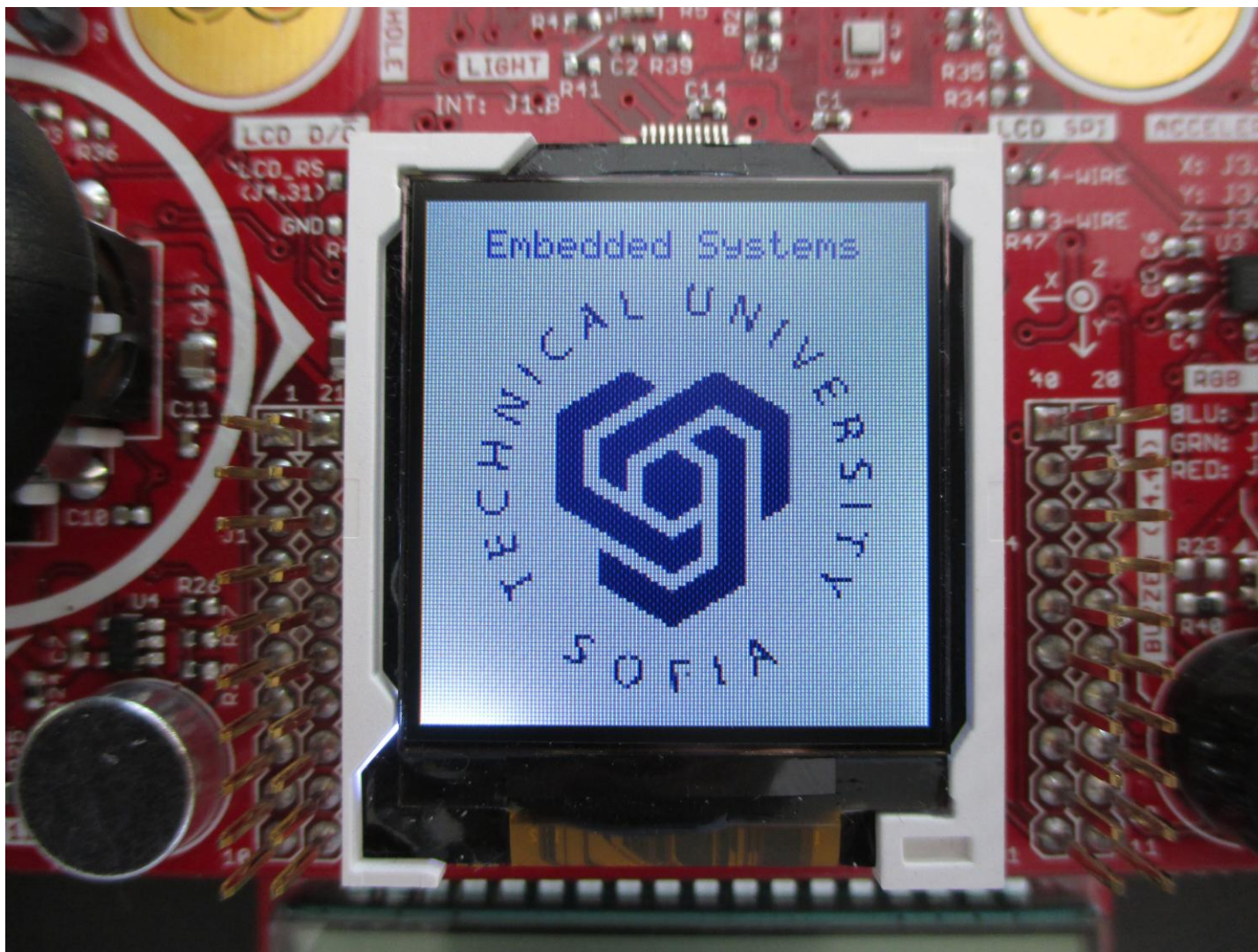
Specifications

Rated voltage	3.5 Vo-p
Operating voltage	3.0 - 5.0 Vo-p
Mean current	35 mA max.
Coil resistance	42 ±6.3 Ω
Sound output	Min. 85 (Typical 95) dBA
Rated frequency	2,048 Hz
Operating temperature	-20 ~ +60° C
Storage temperature	-30 ~ +70° C
Dimensions	ø12.0 x H8.5 mm
Weight	1.4 g
Material	PPO (Black)
Terminal	Pin type (AU Plating)
RoHS	yes

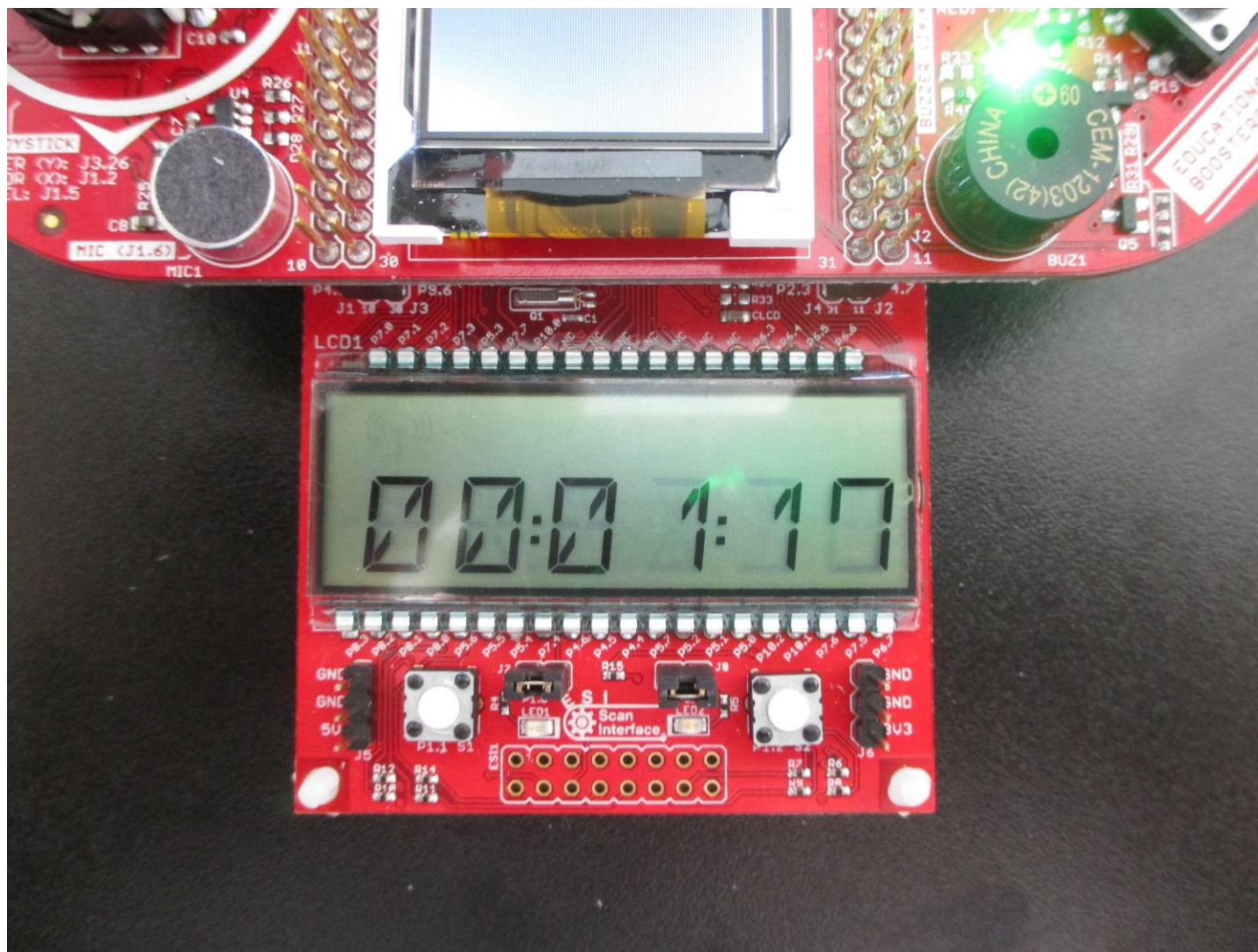
Ограничения

- ❑ Претоварва се захранването на дебъгера
- ❑ !!! Използвайте само !!!
hal_7segm_LCD.c драйвера,
предоставен от ръководителя

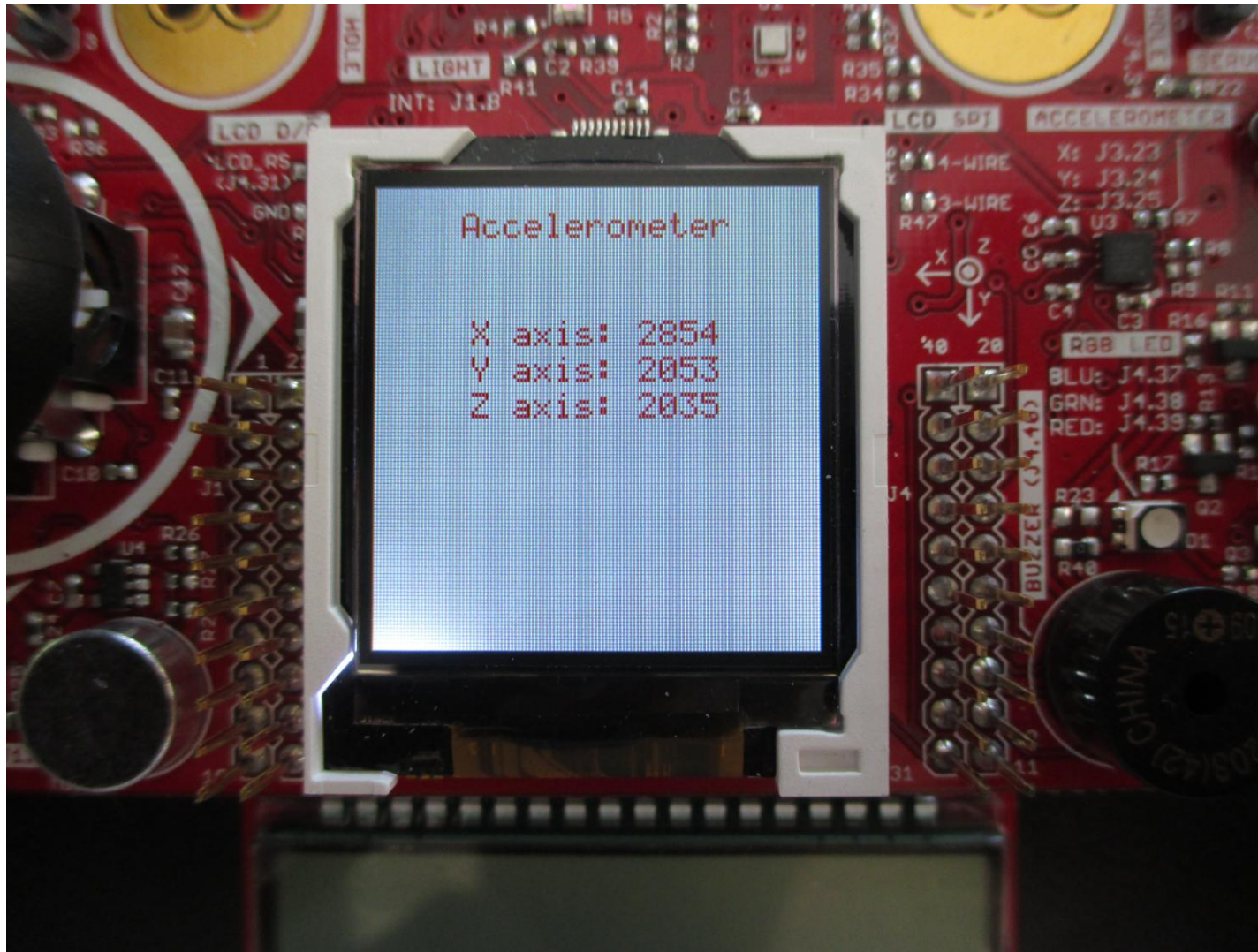
Примерни проекти



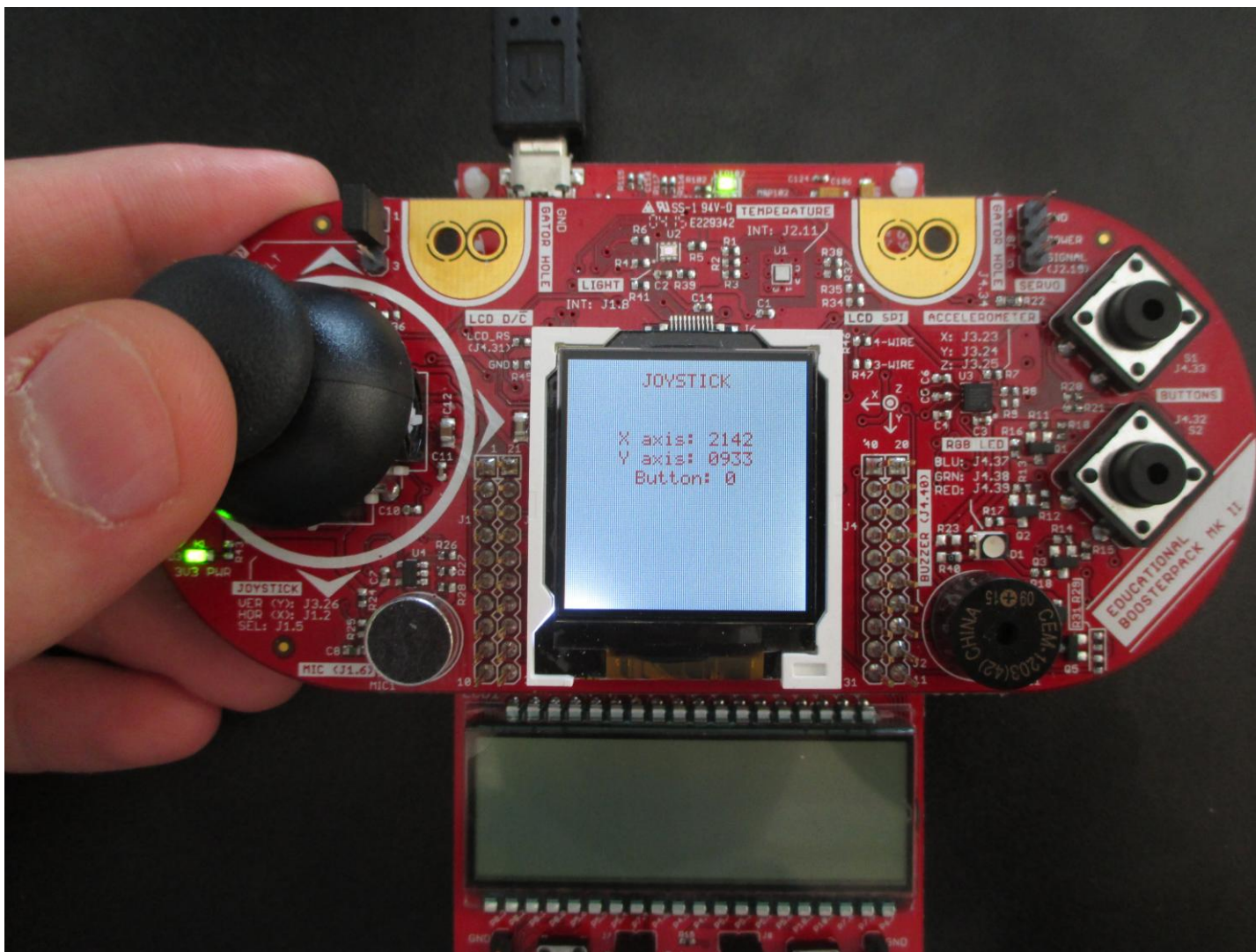
Примерни проекти



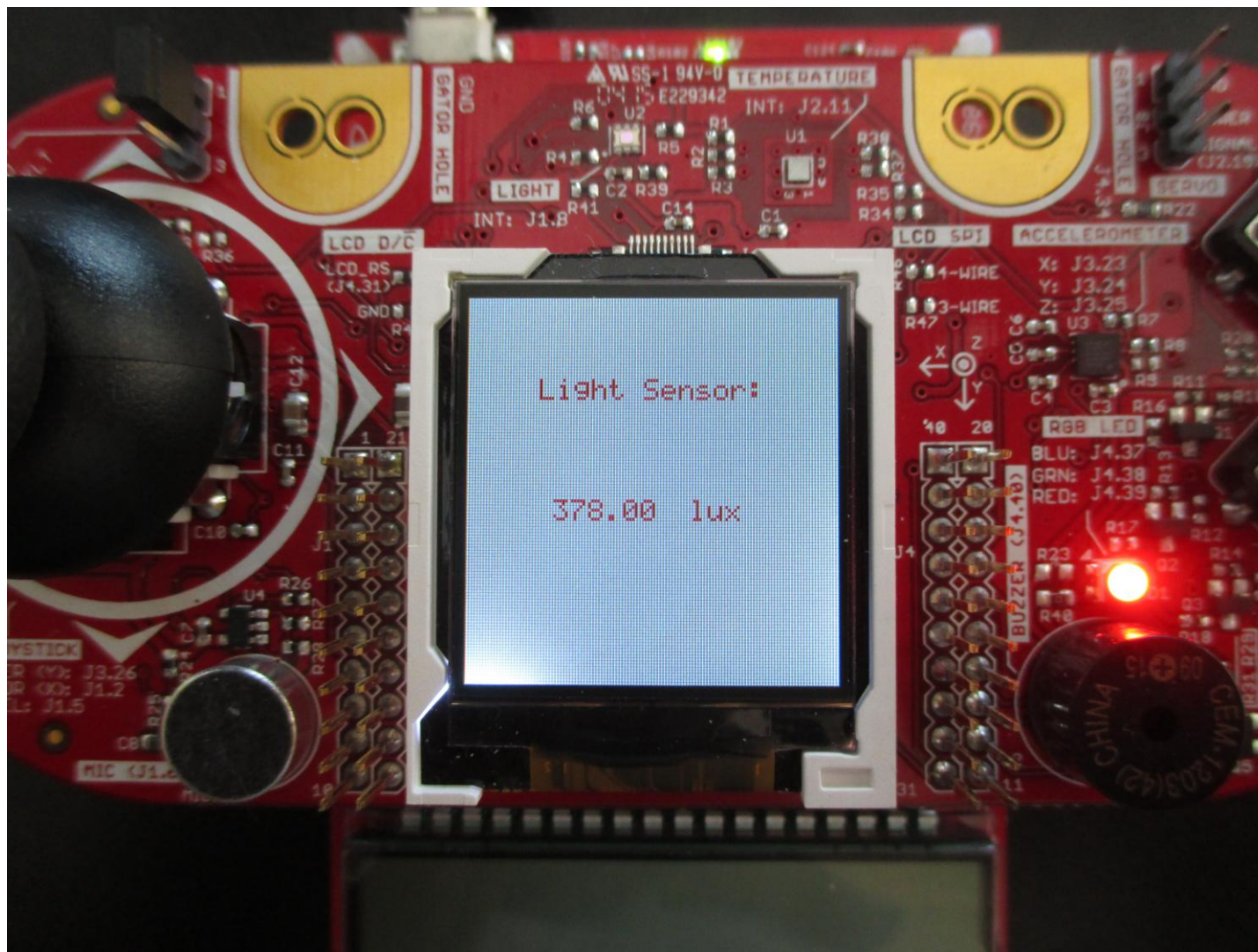
Примерни проекти



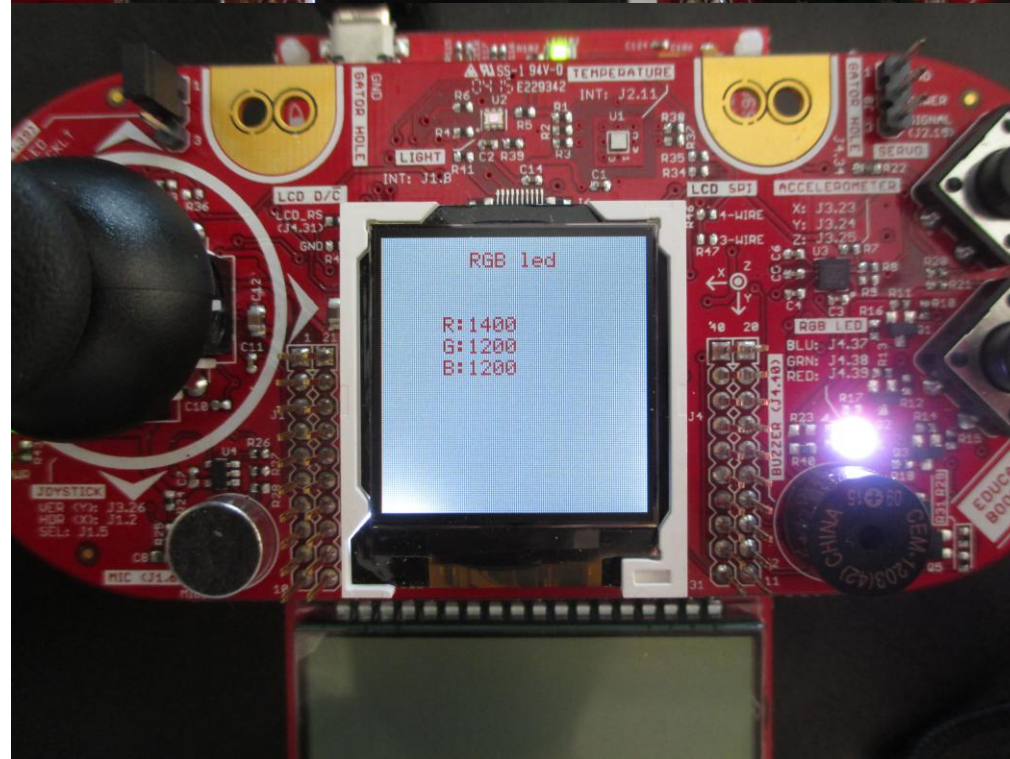
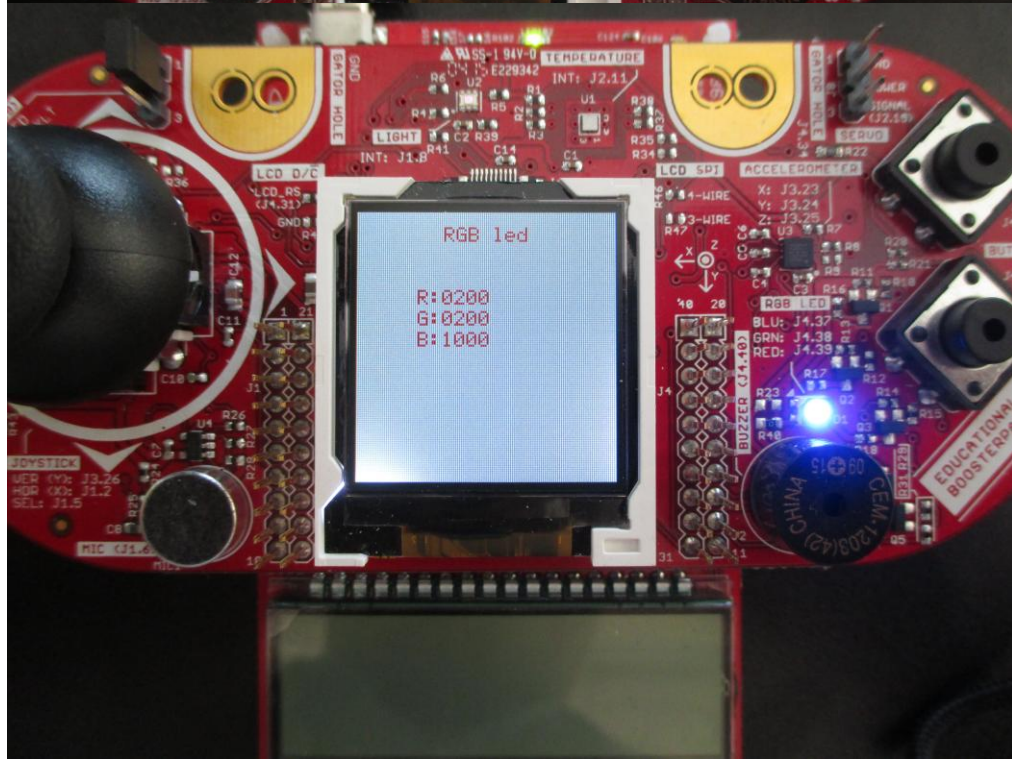
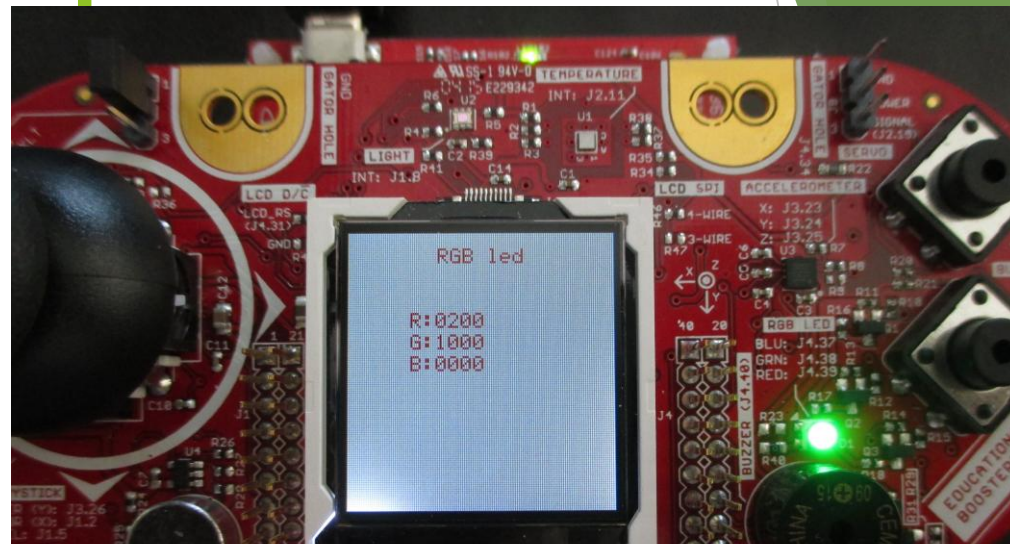
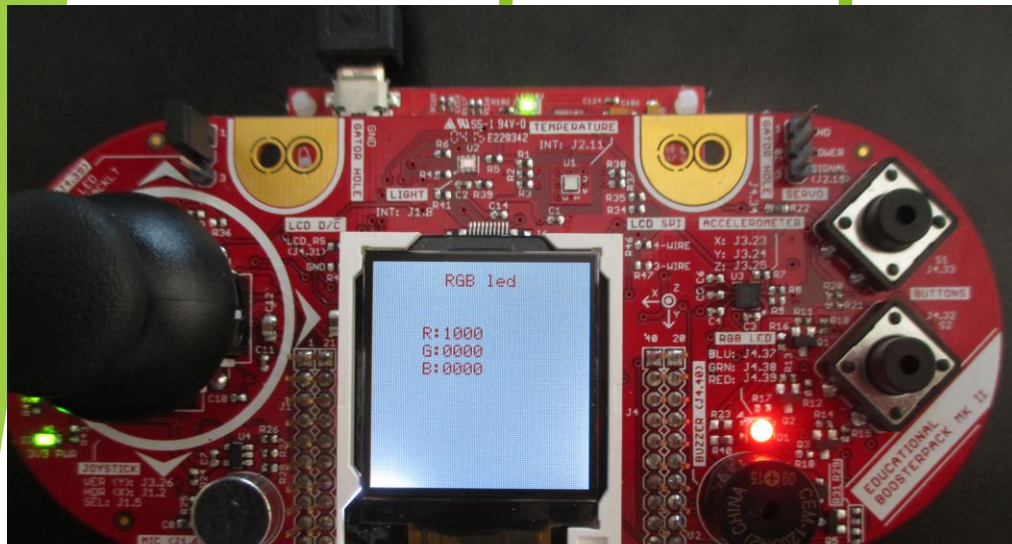
Примерни проекти



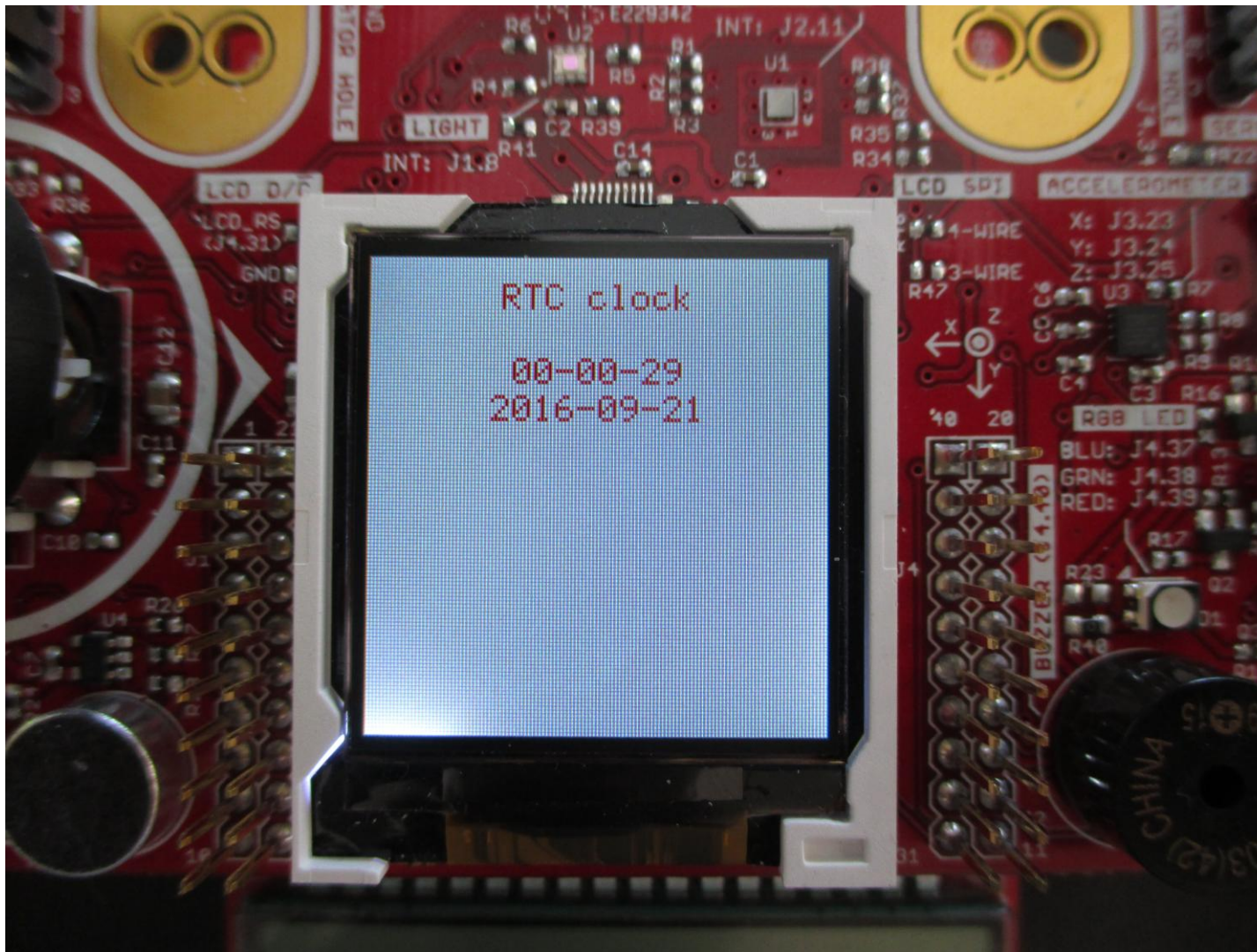
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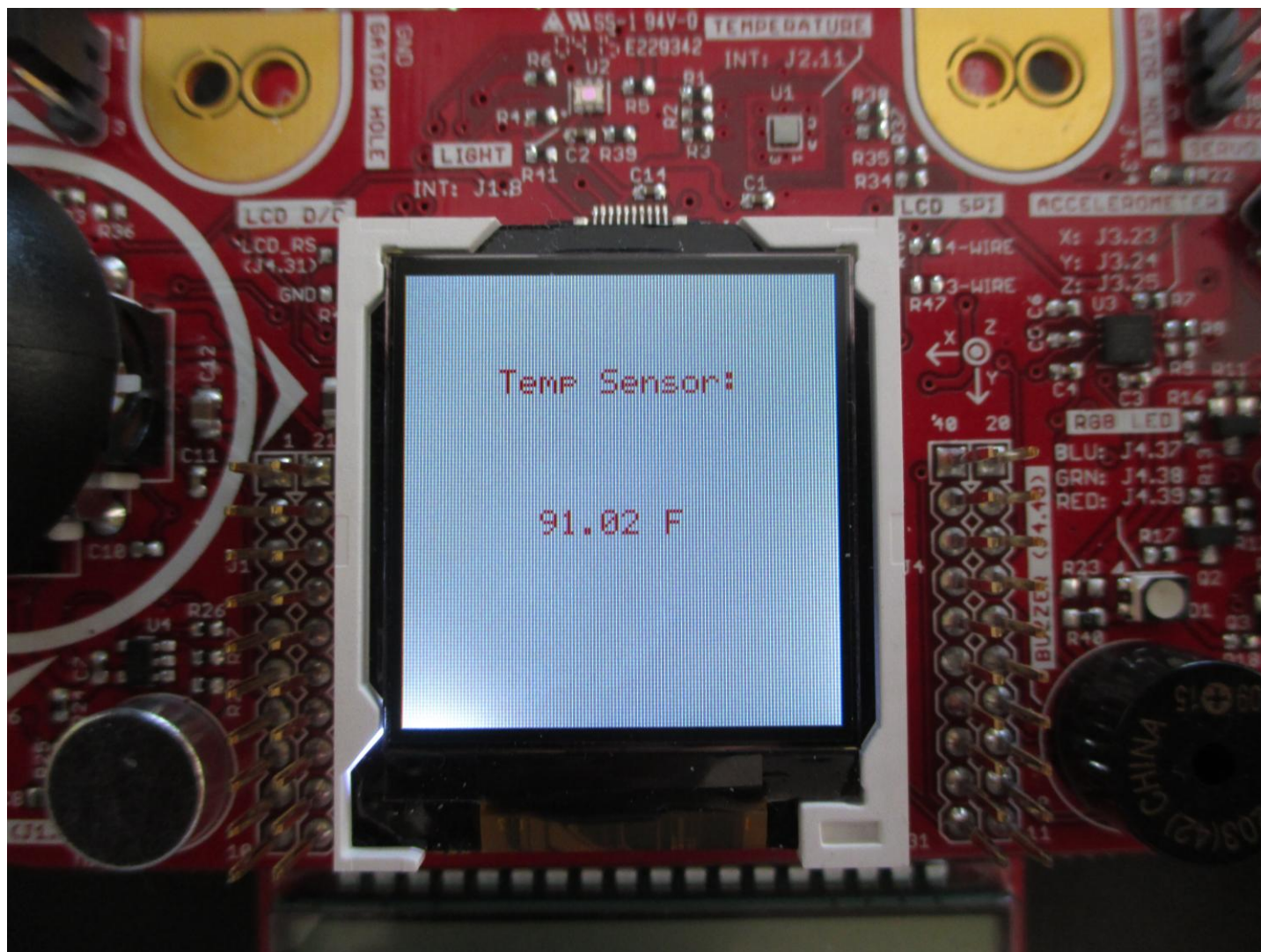
Примерни проекти



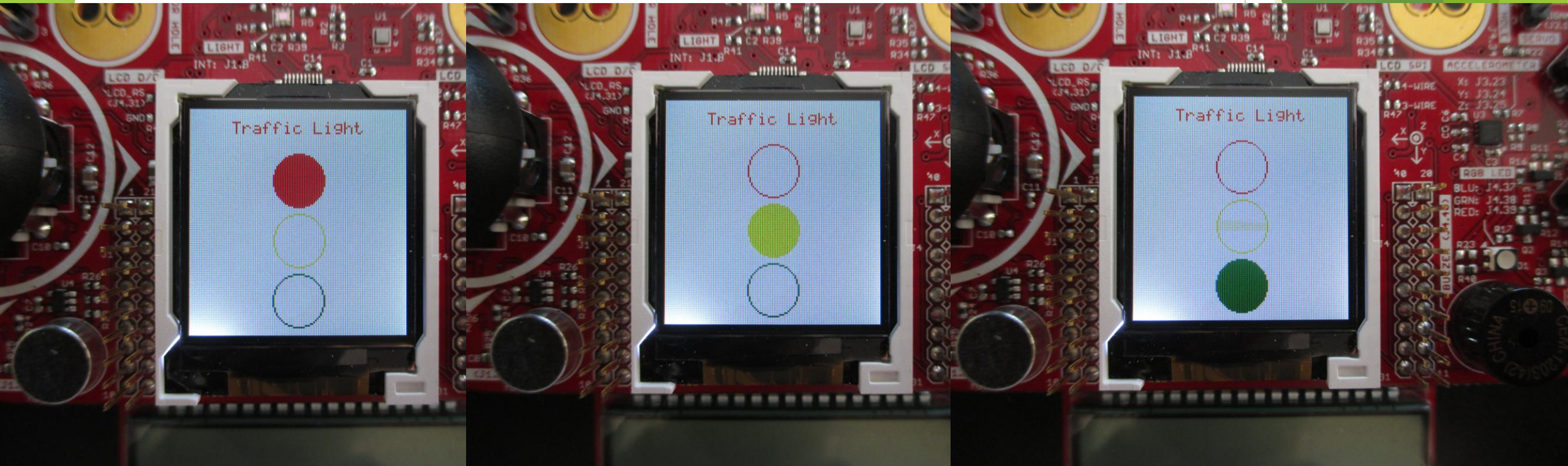
Примерни проекти



Примерни проекти



Примерни проекти



Благодаря за вниманието!

**доц. д-р инж. Л. Богданов
лаб. 1362, тел. 02 965 33 62**