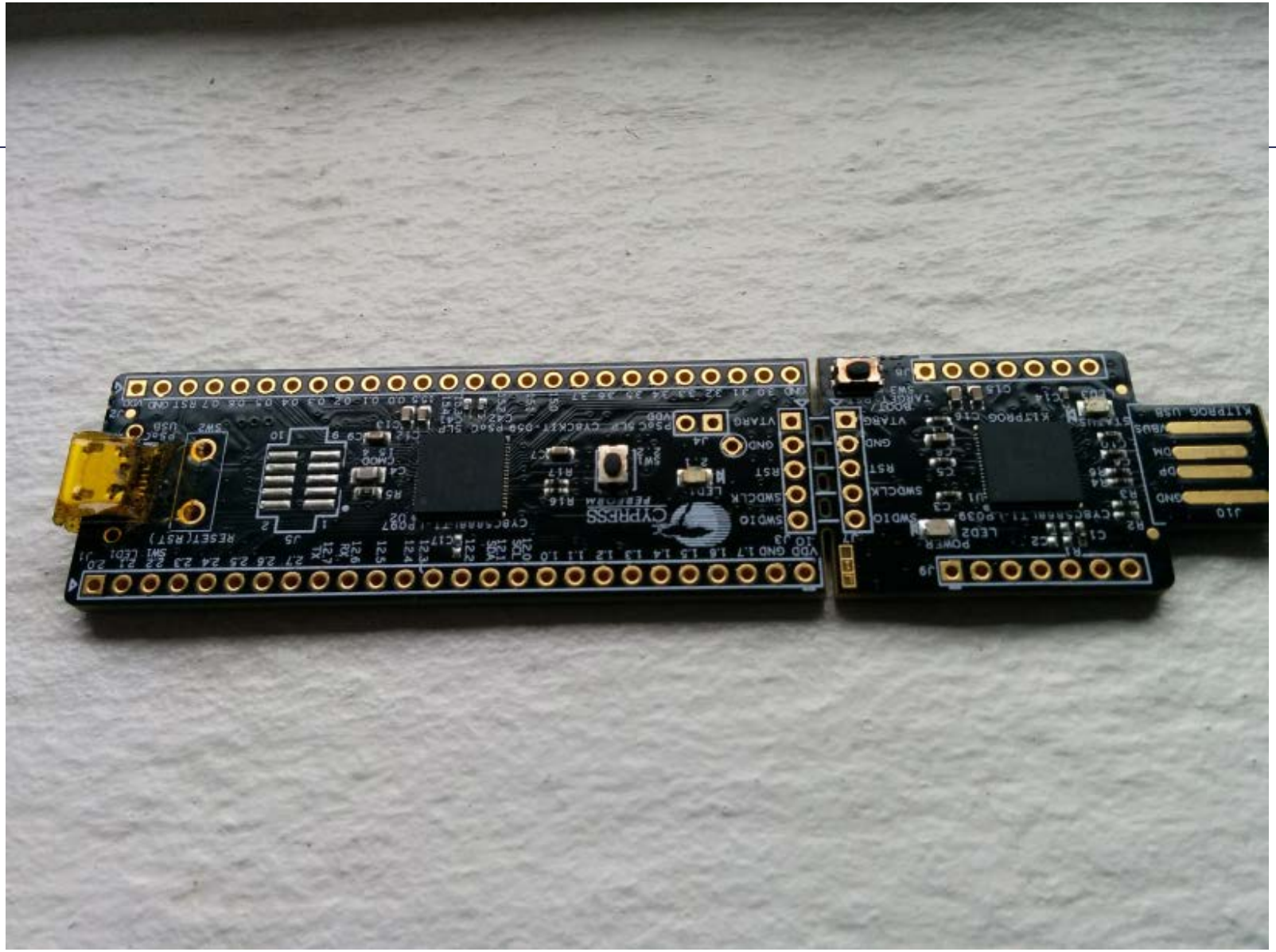
GFV Lab Practical Information


CYPRESS
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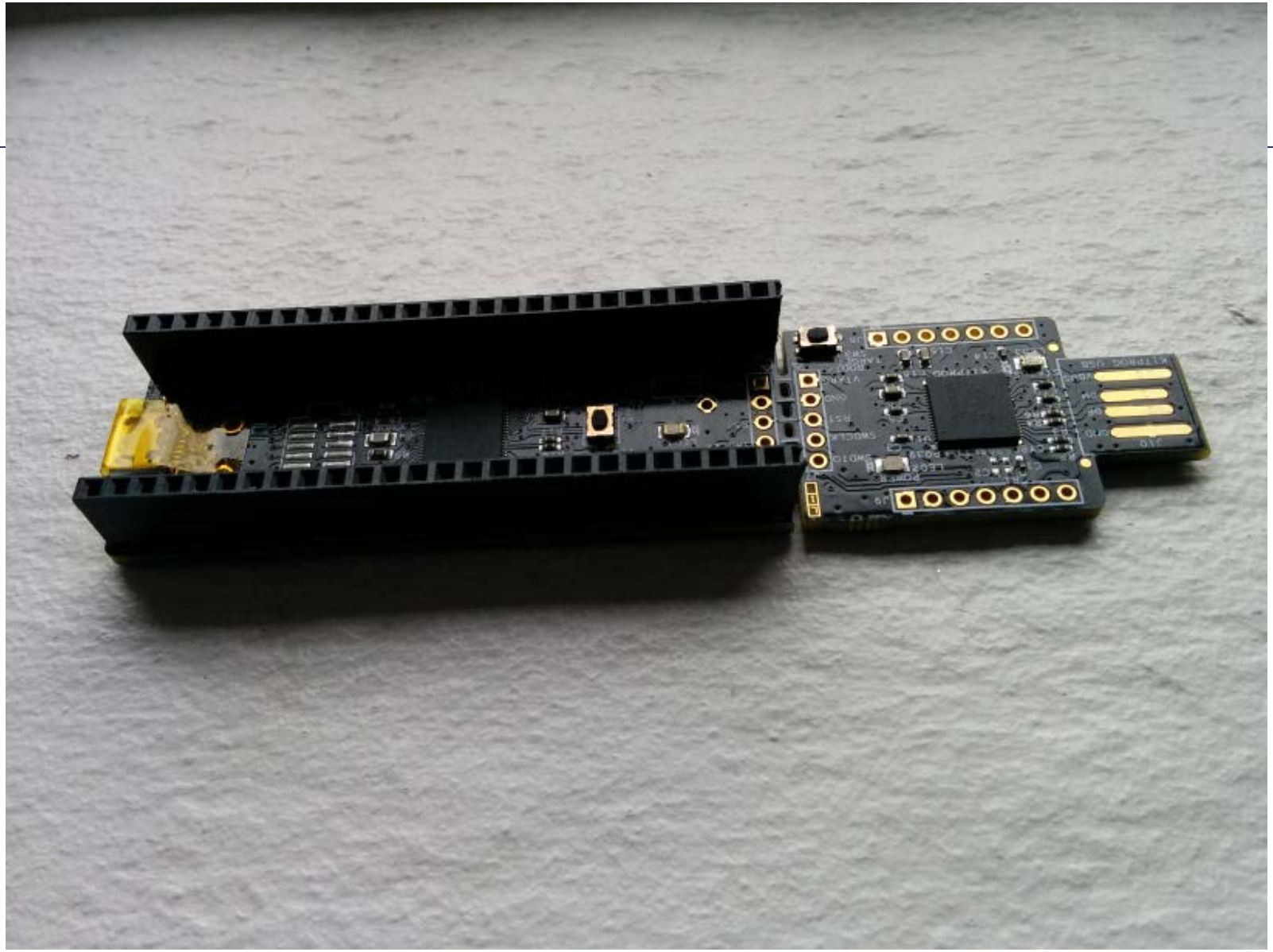


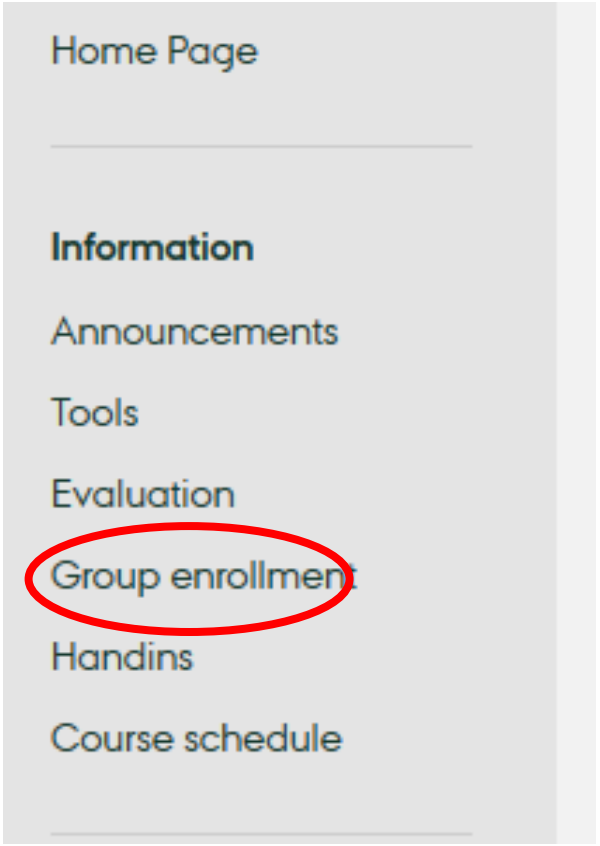
Go to the solder lab and solder on some connectors, so you don’t have to do it in the lab exercise time.

Godkendelse af lab-øvelser

- I skal lave en journal for hver øvelse.
  - I arbejder i grupper af 3 (evt. 4) personer og afleverer journal og zip-fil med kode.
- I skal individuelt lave peer-review af journaler og kode.
  - Hver studerende giver feedback på aflevering fra 2 andre grupper.
  - Feedback skal laves ud fra en rubric med evalueringspunkter. Denne er tilgængelig inden I laver øvelsen.
- Underviser(e) godkender øvelserne med input fra peer-review.

Enroll in groups

- Enroll in a group on Blackboard.
- There should be 3 persons in a group (if you want to be 2 or 4, come ask).



Information on Blackboard

- Experiment description
- Datasheets
- Evaluation rubric for peer-review
- Assignment, where you shall upload the handin.
- Peer-review assignments (when ready)
- Peer-review feedback (when ready)

Handin formalities

Create **a single .zip file**, which contains both journal and code.

Remember to upload all PSoC creator projects, if you have created more than one project.

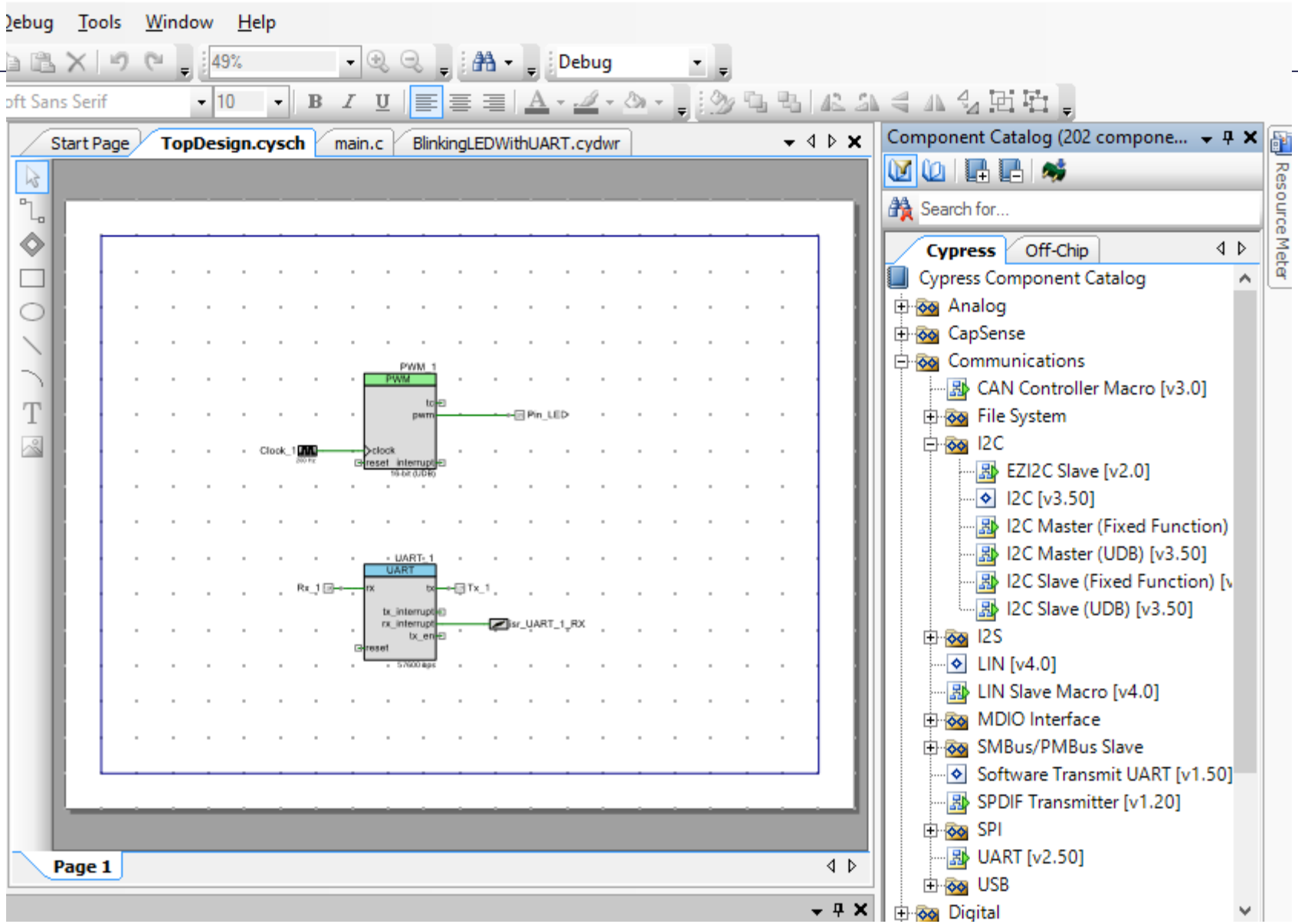
The .zip file shall be named:

Lab-MotorControl-Group<groupnumber>.zip

where <groupnumber> is your group number...

Preparation

- Read the experiment description and evaluation rubric.
- **Create the journal structure and begin writing the lab journal!**
- Start working on the PSoC Creator project and the code.
- Find the information you need in the datasheets.
- Find the components you will need in the PSoC Creator.
  - Right-click to see the component datasheet.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Debug
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main.c
BlinkingLEDWithUART.cydwr
PWM_1
PWM
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Pin_LED
Clock_1
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interrupt
UART_1
UART
Rx_1
rx
tx
Tx_1
tx_interrupt
rx_interrupt
tx_empty
isr_UART_1_RX
reset
Page 1
Component Catalog (202 compone...
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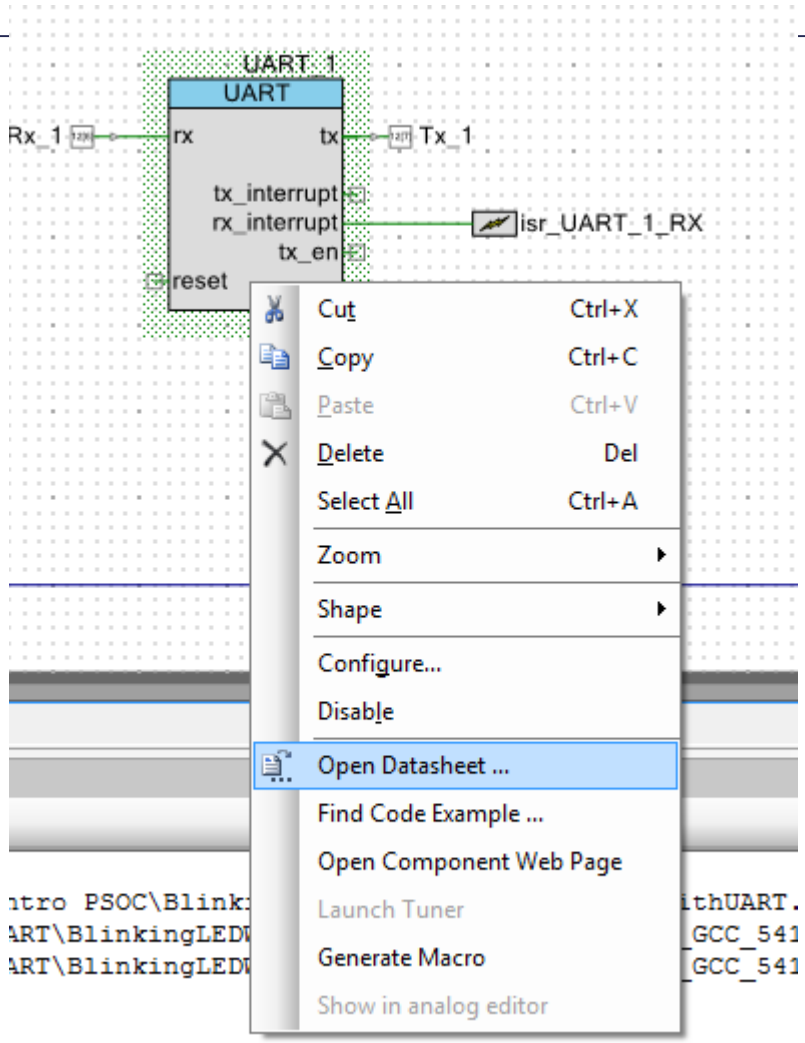
Cypress
Off-Chip
Cypress Component Catalog
Analog
CapSense
Communications
CAN Controller Macro [v3.0]
File System
I2C
EZI2C Slave [v2.0]
I2C [v3.50]
I2C Master (Fixed Function)
I2C Master (UDB) [v3.50]
I2C Slave (Fixed Function) [v
I2C Slave (UDB) [v3.50]
I2S
LIN [v4.0]
LIN Slave Macro [v4.0]
MDIO Interface
SMBus/PMBus Slave
Software Transmit UART [v1.50]
SPDIF Transmitter [v1.20]
SPI
UART [v2.50]
USB
Digital
Resource Meter


UART_1
UART
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Tx_1
tx_interrupt
rx_interrupt
tx_en
reset
isr_UART_1_RX
Cut Ctrl+X
Copy Ctrl+C
Paste Ctrl+V
Delete Del
Select All Ctrl+A
Zoom
Shape
Configure...
Disable
Open Datasheet ...
Find Code Example ...
Open Component Web Page
Launch Tuner
Generate Macro
Show in analog editor

Preparation

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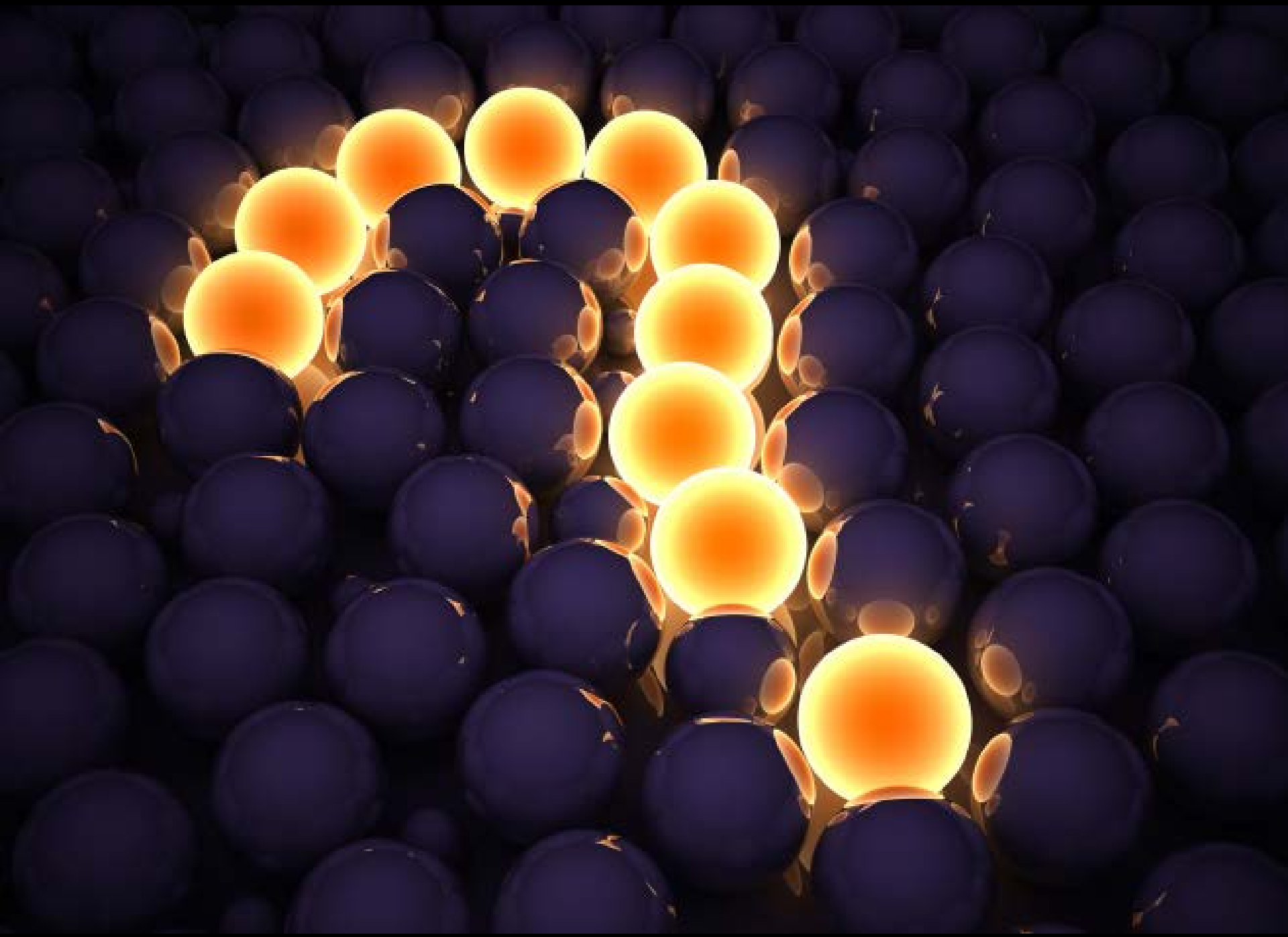

Image resources

- Question mark: https://wall.alphacoders.com/big.php?i=437563