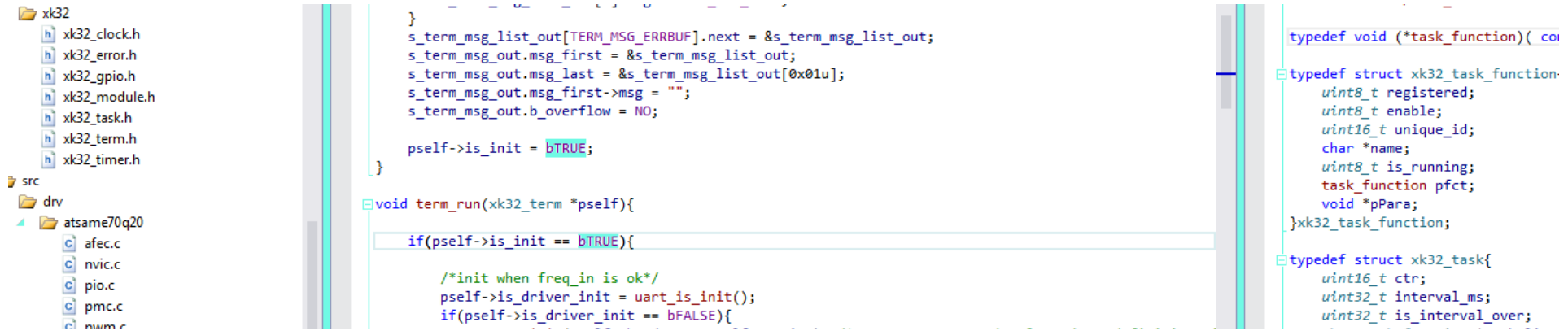
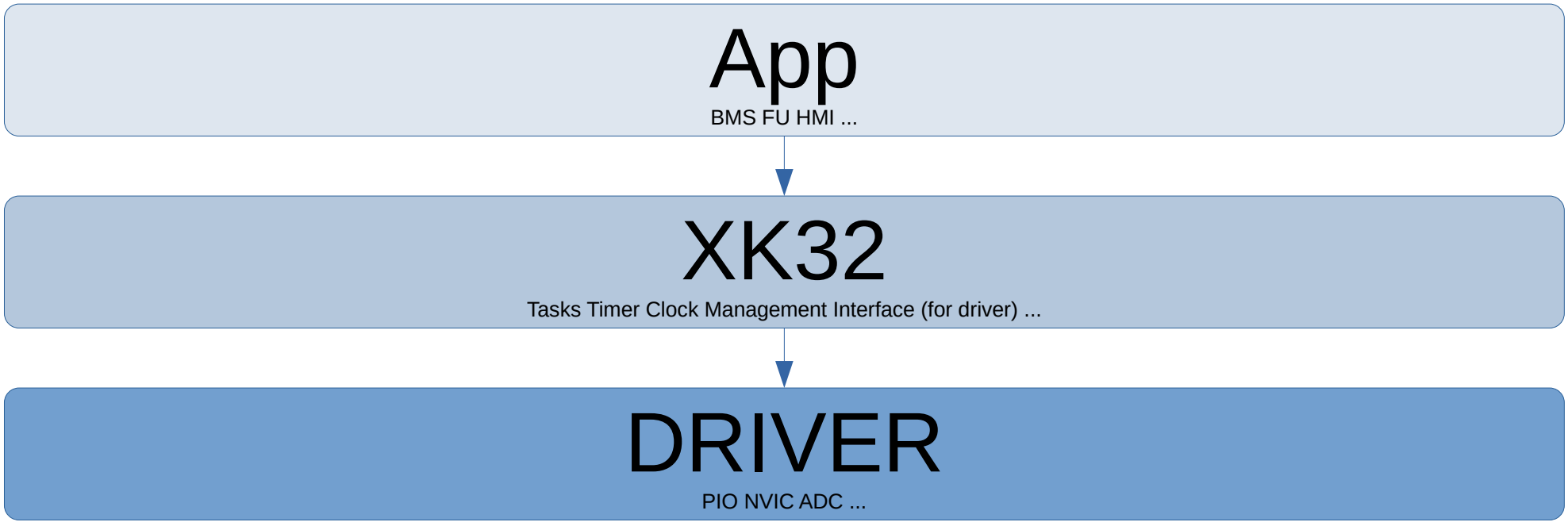
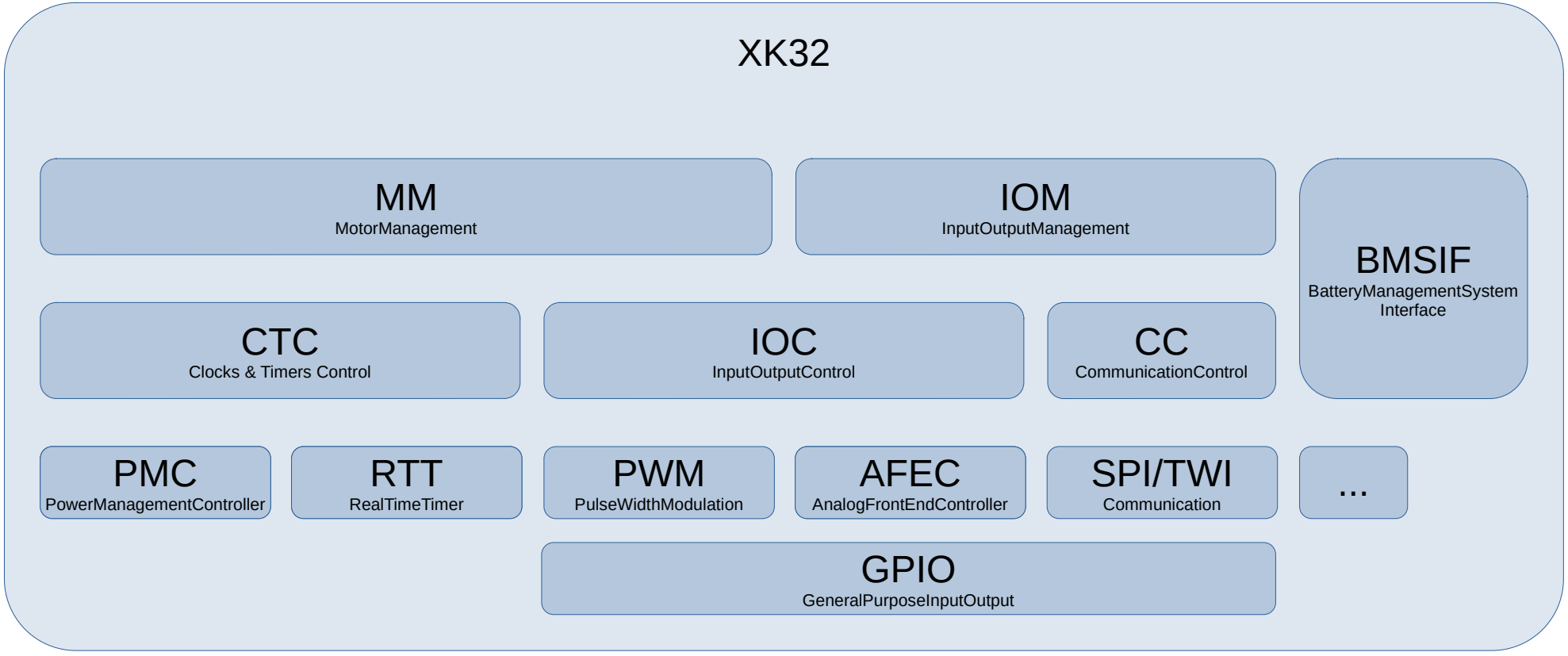
Software plan



General Software Structure



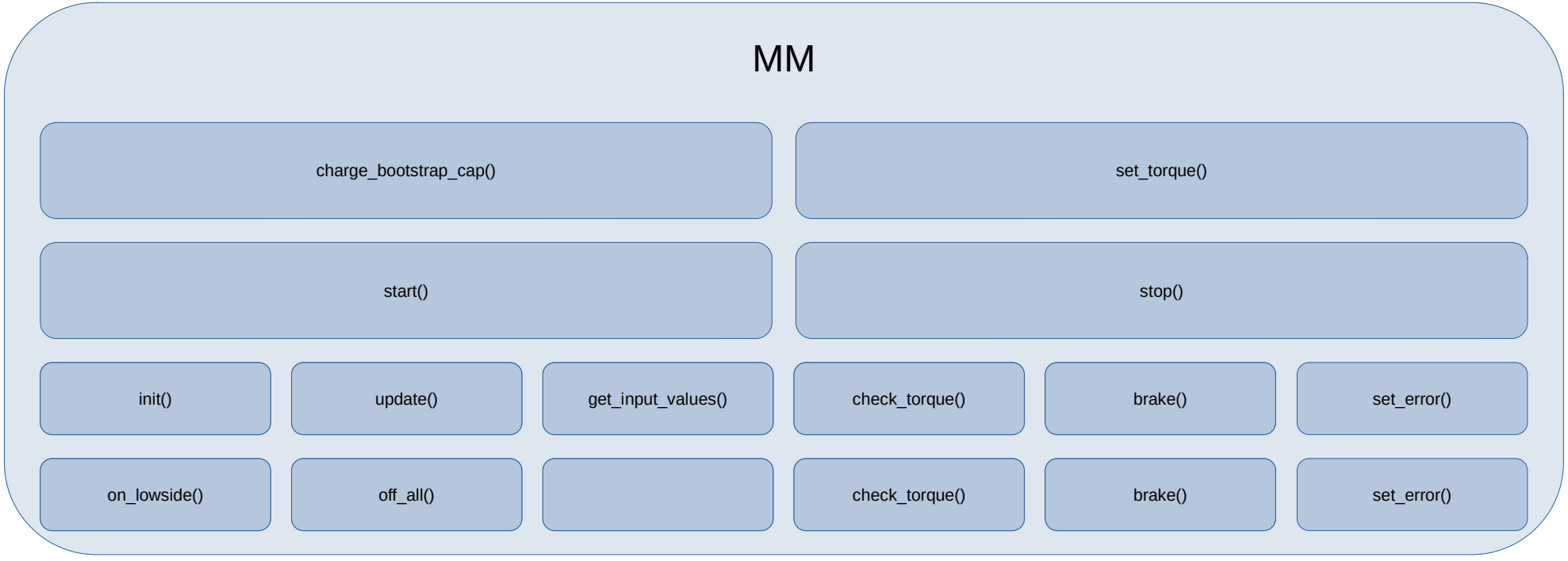
XK32 Module



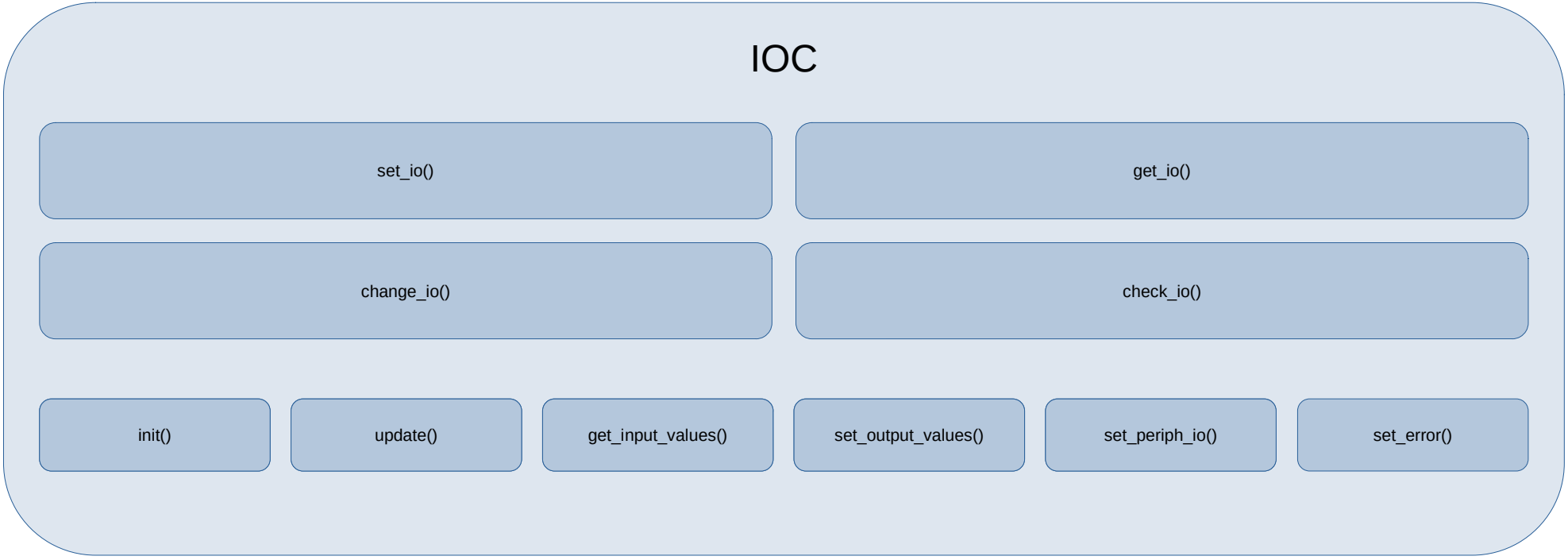
Software design rule

- Every module has at least one struct where all default values are defined for its module
- Module specific struct is the first argument in every function
- Module can have more different structs
- Kind of object orientated programming

MotorManagement MM



InputOutputController IOC



XK32 Standard Module

Public functions of a standard module

module_init(struct module *pself);

module_run(struct module *pself);

module_subinit(struct module *pself);

ret module_set/get(struct module *pself);

...

XK32 Standard Driver

Public functions of a standard driver

driver_init(struct module *pself);

driver_run(struct module *pself);

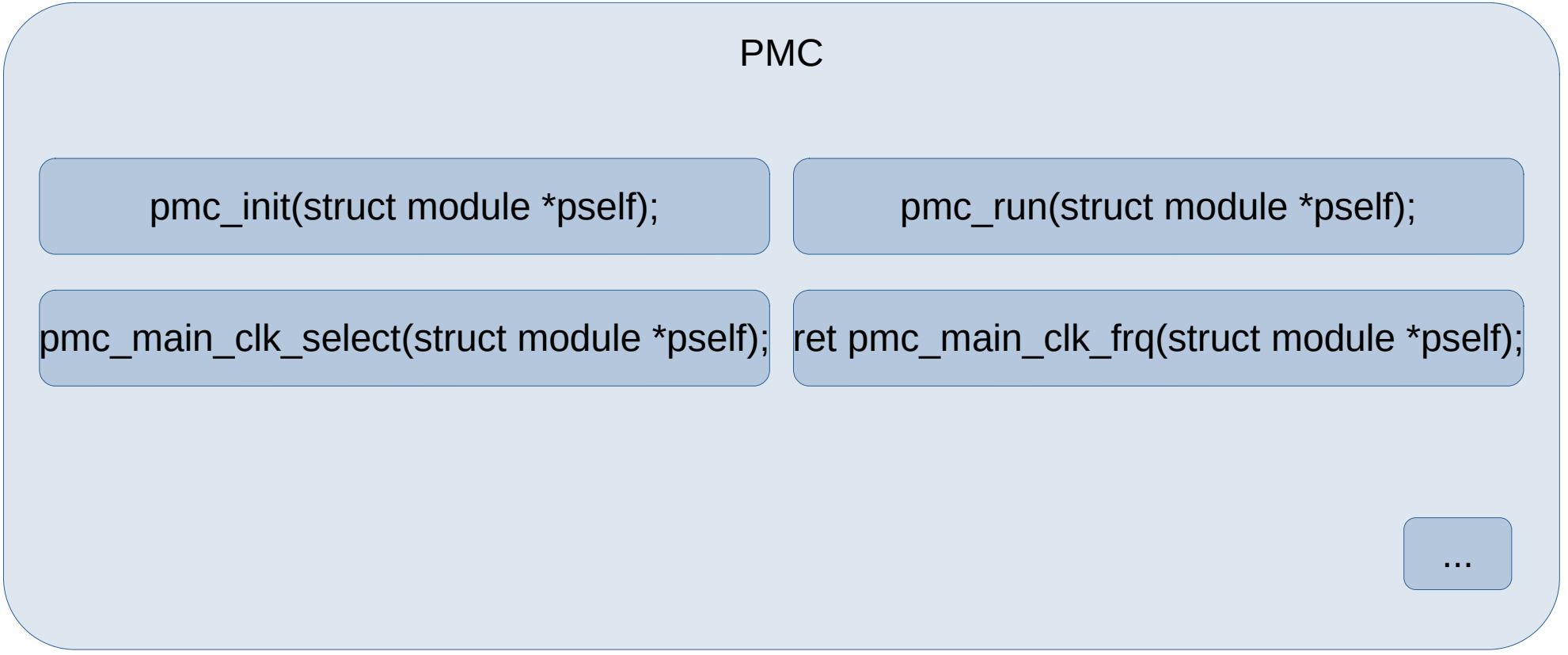
driver_subinit(struct module *pself);

ret driver_set/get(struct module *pself);

driver_error_msg(struct module *pself);

...

PMC Driver Functions



TODO

Development of platform (xk32)
- stable term/ Gui connection → cmd/ data

1

Uart/ Debug Interface
trough xk32Gui/ SWD

2

5

Use Git/ Gitlab → open source

SW

3

Commutation table/
square commutation

4

Independet development Environment

? Code::Blocks
? Eclipse
? proprietary

scratchtronic