



Figure 3 – Alternative Hardware

7.3.8 Applying the API draft to the pseudo-code

7.3.8.1 Initial Mapping

```
/*
 * MCAPI 2.000 Automotive Use Case
 * control_task.c
 *
 */

#include "mcapi.h"
#include "automotive.h"
extern char* shmget(int size);

////////////////////////////////////
// The control task
////////////////////////////////////
void Control_Task(void) {
    char* sMem;
    mcapi_uint8_t tFlag;
    mcapi_endpoint_t tpu_endpt, tpu_remote_endpt;
    mcapi_endpoint_t sig_endpt, sig_remote_endpt;
    mcapi_endpoint_t tmp_endpt;
    mcapi_sclchan_rcv_hdl_t tpu_chan;
    mcapi_pktchan_rcv_hdl_t sig_chan;
    SIG_DATA sDat;
    size_t tSize;
    mcapi_request_t r1, r2;
    mcapi_status_t err;
    mcapi_priority_t priority = PRIO_HIGH;
    mcapi_param_t mcapi_parameters;
    mcapi_info_t mcapi_info;

    // init the system
```