What seems logical and readable for a non-embedded system does not make sense for an embedded system.

For embedded systems you need to what size everything and what is aligned to.

Packing though not portable can help. Packing is not a complete solution.

Recommended code in a lot of circles is not good in an embedded system. Especially while passing data between processors and/or hardware.

```
enum type_of_struct_enum {STR_A, STR_B, STR_C};
struct
   type_of_struct_enum struct_type; /* what size is this?
                                         FYI, it is not dependent on
                                         the number of enums */
   union
      unsigned int reg; /* what size is this? what will the structure
                           be aligned to? */
      struct
         int upperbits : 16; /* is this packed and on what boundary?
                                What are the relative bit locations
                                 (endian-ness?) */
         int lowerbits : 16; /* is this packed and on what boundary?
                                What are the relative bit locations
                                 (endian-ness?) */
      } bits;
   } reg_ctrl;
} recommended_but_poor_idea;
Better for an embedded system.
/* now you control the size */
#define uchar unsigned char
#define ulong unsigned int
enum type_of_struct_enum {STR_A, STR_B, STR_C};
struct
```