STM32 ARM Cortex-M MCUs

Learning the STM32 MCUs which are based on the ARM® Cortex®-M processor is a good starting point to program with ARM cores. There are thousands of topics on the internet, but in this blog, guides and tutorials are presented as a great reference source with example projects from basic to advanced level.

Last update: 2021-06-07 13:23:39

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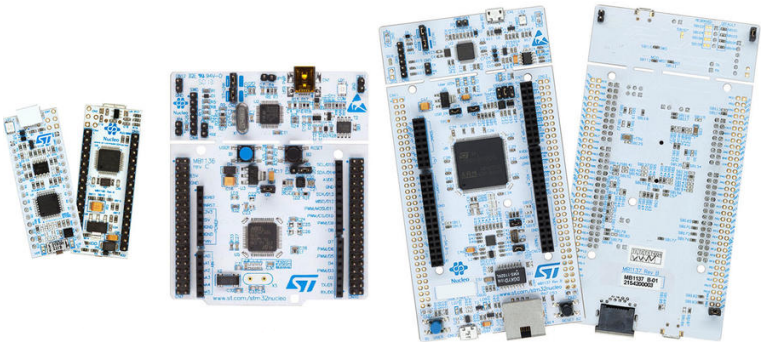

STM32 Nucleo boards

Topics

In this blog, I'll try to write posts in an easy-to-follow order, so that beginners can understand them well. There are also some advanced topics for debugging or programming with more complex techniques or projects.

Communities

Official Homepage:

> https://www.st.com/

ST's Education center:

> https://www.st.com/content/st_com/en/support/learning/stm32-education.html
> The Education Center has a lot of materials and documents arranged into groups: basics, tools, product lines, application, tips & tricks.

ST's Forum:

> https://community.st.com/s/

ST's Wiki page:

> https://wiki.st.com/stm32mcu

OpenSTM32 Forum:

> https://www.openstm32.org/forums

STM32Duino:

> https://www.stm32duino.com/

Content

The content of each post is based on my experience, but it's hard to write down all of them. Since I also taught some embedded courses in my company for freshers, I would like to keep the content as simple as possible to help beginners feel easy to follow. The guides and tutorials given here can be be applied to different types of STM32 MCUs, as I will try to use the internal peripherals of the microcontroller and some popular external ones.

I am also in the process of learning, therefore, some posts I shared may have a mistake or be out-of-date, so please give me a comment and feedback to help me improve this series. I hope you can find something interesting and helpful here.

References

While learning, I've read a lot of resource on books and on the internet. I could not re-draw or rephrase all of the information pieces, so I will use include them in my posts. In those cases, the credit belong to the original authors.

Here are the reference list:

- The book "Mastering STM32" by Carmine Noviello
- The tutorials on DeepBlue MBedded