Projects

Here is the list of some of my projects. I do them for learning, practicing, and for earning some bucks in my free time ^^.

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I have published some of my projects on my github at vuquangtrong. If you are interested, feel free to ask me for more details. Any feedback or comment is welcome.

STM32 Tutorials

I made this series of tutorials for one of my training courses in my company, then I'd like to share it here to help others who also start learning about ARM Cortex-M MCUs.

MkDocs Material Blog theme

Based on the Material for MkDocs theme, I added some modifications to restyle my site to make it look like a blog. As shown here, I added the homepage, tags and a tag cloud, featured posts. It also enables markdown extensions to help writing an blog post faster.

Simplify Pelican Theme

I used Pelican static site generator before I moved to MkDocs. At that time, I made a theme for this blog using Bootstrap and Jinja template. Pelican, same as MkDocs, is based on Python.

VAcamera

This is a small project that uses Accord framework and FFmpeg engine to record video streams from 2 cameras and write combined videos with some overlay text to mp4 files. Because the application runs in a very low performance machine, I've had to add some optimizations to operate on the image buffer.

Tiva C TM4C123G LaunchPad

I practiced on ARM Cortext-M4F which was the first ARM core I learnt. That repo contains my self-learnt projects, including Bring Up, Sensors, LCD, BootLoader and Firmware Update labs.

SMS WebHub

This project uses a mobile phone to process commands from a website on the internet (e.g. hosted on a VPS) via websocket, include sending SMS, checking Balance, calling a number, forwarding messages.

Other Proof of Concept (PoC) projects

This repo has prototypes for freelance projects I have done. As their source code are not allowed to be published by contracts, I just show some demonstrations with some features some how related to the projects.