Week 3:
Hapkit Assembly and Software

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Hapkit Assembly
Hapkit Software

Arm Mbed OS developer site

Mbed OS 5

Mbed simplifies and speeds up the creation and deployment of IoT devices based on Arm microcontrollers.

The project is being developed by Arm, its Partners and the contributions of the global Arm Mbed Developer Community:

- Get started
- Latest release

248,977 compilations in the last 7 days

Blog
- mbed OS 5.6.2 released
- Anna Brider - about 3 hours ago

Questions
- 1 answer
- Cannot export to IDE from mbed-cli

Activity
- Your dashboard
- Program updated: ME21001 Lab04 Exercise 01 - exercise 1.1
Hapkit Software
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NUCLEO-F446ZE

STM32 Nucleo-144 development board with STM32F446ZE MCU, supports Arduino, ST Zio and morpho-connectivity

Overview

The STM32 Nucleo-144 board provides an affordable and flexible way for users to try out new concepts and build prototypes with the STM32 microcontroller, choosing from the various combinations of performance, power consumption and features. The ST Zio connector, which is an extension of Arduino™ Uno, provides access to more peripherals and ST morpho headers make it easy to expand the functionality of the Nucleo open development platform with a wide choice of specialized shields. The STM32 Nucleo-144 board does not require any separate probe, as it integrates the ST-LINK/V2-1 debugger/programmer and it comes with the STM32 comprehensive software HAL library, together with various packaged software-examples, as well as a direct access to the ARM®mbed™ online resources.
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Step 5. Following this, you will notice that motor 2 is too short to be connected straight into the electronics board. (b) Use some Male to Female jumper wires to connect to the motor terminals. We recommend that you either follow all the color patterns or at least make sure that the red motor wire is connected to a red wire. (c) That way you can still line up the red wire all the way to the left as you did on Step 5 (but now for header 2) and you will have your Motor 2 interfacing to the right pins on the board (d). (a)

Congrats! you have completed the electronics assembly of Haplink! You should download different virtual environments to your device and see how it feels.
Hapkit Software
Your TO DO list

• Get your assembled Hapkit *and* blinking light checked off by end of class time today — if you run into technical problems, finish before beginning of class next Tuesday

• Continue bringing your laptop and power cord to class every day