Chapter number	Software required (With version)	License	Download links to the software	OS/platform
2	GNU Arm embedded toolchain (v.7-2017q4)	GNU GPL	https://developer.arm.com/open-source/gnu-toolchain/gnu-rm	GNU/Linux
2	OpenOCD (0.10.0)	GNU GPL	http://openocd.org/	GNU/Linux
2	Crosstool-ng (1.23.0)	GNU GPL	https://crosstool-ng.github.io/	GNU/Linux
2	StLink open source tools	BSD	https://github.com/texane/stlink	Multiplatform
2	Qemu (2.12.0)	GNU GPL	https://www.qemu.org/	GNU/Linux
2	dfu-util (0.9)	GNU GPL	http://dfu-util.sourceforge.net/	GNU/Linux
3	git (2.16.2)	GNU GPL	https://git-scm.com/downloads	Multiplatform
3	Gitlab (10.6.5)	MIT	https://about.gitlab.com/installation/	Multiplatform
3	Gerrit (2.16)	Apache 2.0	https://www.gerritcodereview.com	Multiplatform
3	Jenkins (2.107.3)	MIT	https://jenkins.io/download/	Multiplatform
3	Doxygen (1.18.4)	GNU GPL	https://www.stack.nl/~dimitri/doxygen/	Multiplatform
3	newlib (3.0.0)	BSD	https://www.sourceware.org/newlib/	Embedded systems
9	lwIP (2.0.1)	BSD	https://savannah.nongnu.org/projects/lwip/	Embedded systems
9	uIP	BSD	https://github.com/adamdunkels/uip	Embedded systems
9	picoTCP (1.7.0)	GNU GPL	https://github.com/tass-belgium/picotcp	Embedded systems
9	wolfSSL (3.14.0)	GNU GPL	https://www.wolfssl.com/	Multiplatform
9	Mongoose Web Server	GNU GPL	https://github.com/cesanta/mongoose	Embedded systems
11	FreeRTOS (10.0.1)	MIT	https://www.freertos.org/	Embedded systems
11	ChibiOS (18.2.1)	GPL / Apache	http://www.chibios.org/dokuwiki/doku.php	Embedded systems

11	Contiki OS (3.0)	BSD	http://contiki-os.org/	Embedded systems
11	RiotOS (2018.04)	GNU LGPL	https://www.riot-os.org/	Embedded systems
11	NuttX (7.24)	BSD	http://www.nuttx.org/	Embedded systems
11	Frosted OS	GNU GPL	https://git.io/vKfmq	Embedded systems
11	Tock	Apache / MIT	https://www.tockos.org/	Embedded systems

Reference Hardware platform:

ST Microelectronics STM32F407-Discovery	http://www.st.com/en/evaluation-tools/stm32f4discovery.html