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Interfacing to Arm Cortex-M Microcontrollers Book is great! I am taking Valvano's class in the future but reading it ahead of time was very enjoyable! Embedded Systems: Real-Time Interfacing to Arm Cortex-M Microcontrollers This book gives you a very thorough look into the ARM Cortex M4F architecture and soup to nuts perspective of why things are laid out the way they are and 2) a lot of the same introductory material that detracted from the first volume is reprinted here:

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