



國立台灣科技大學
電機工程系

嵌入式微處理器系統設計

(EE5019701)

HW1

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Q1-1 : Briefly describe the distinction between requirements and specification.

Ans1-1 : requirements 是需要的東西(解決的利益相關者的需求) ; specification 是對項目的精確描述(分析需求的技術文檔)。

(Requirements is what is given to the engineers from the customer, described in broad, vague terms. Specifications are done by the engineers, to describe what is going to be needed, but not anything specific.)

Q1-2 : Briefly describe the distinction between specification and architecture.

Ans1-2 : specification 是對系統行為方式的詳細描述 ; architecture 是描述了系統是如何實際構建的。

(While specification is a broad outline of what will be needed for a project, architecture is deciding on the components that are needed, specifically, and how they are put together.)

Q1-3 : At what stage of the design methodology would we determine what type of CPU to use (8- bit vs. 16-bit vs. 32-bit, which model of a particular type of CPU, etc.)?

Ans1-3 : 在 Architecture 這個 stage 決定項目中需要哪種類型的組件(包括 CPU 、內存等.....)。

(Architecture. Architecture is when you decided what type of components that you need in your project. This means CPUs, Memory, etc.)