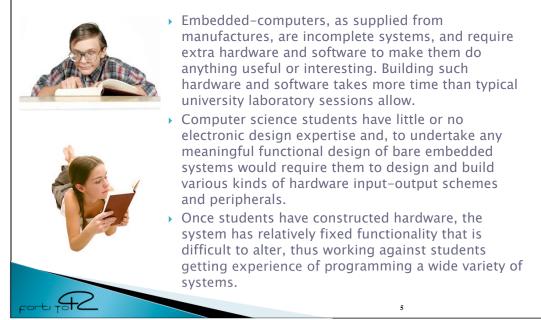


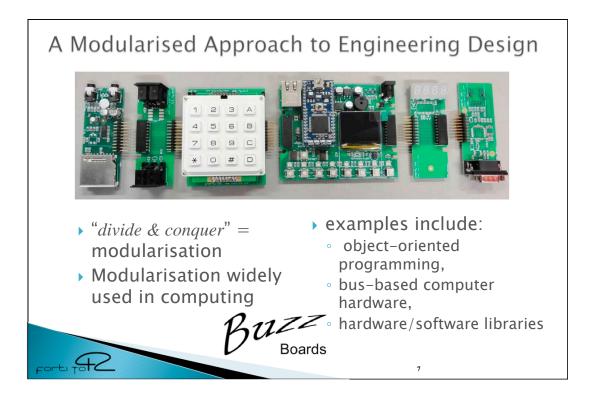
## A Computer Science Student's Viewpoint



## An Instructor's Viewpoint



- Doing things from the bottom up is time consuming and, within the limits of typical lab sessions, limits the complexity of the systems that students can build.
- Much of the focus of the computer science curriculum is on the software aspects of embedded computing whereas existing embedded computing offerings revolve around the hardware level, which can distort the focus of the computer science curriculum.
- System level solutions for embeddedcomputing education tend to either be single appliance oriented (eg a robot), or too simple to give realistic product development experience.
- The software tools are sometimes overly complex, taking a lot of learning and distorting the focus of the underlying computing principles being taught.





## Software Develpment



- Buzz Boards work with standard C and C++
- Development software is based on a simple 'drag & drop'
- Processor Base Board connected to a PC via USB which behaves like a USB pen drive allows drag and drop of compiled program device – press the 'reset' button to execute it.
- Variety of software demos and assignment templates provided (including software source code and assignment text)
- Web-based graphical programming environment (*Buzz Blocks*) under development for less experienced people.

