

Embedded Systems Course -001

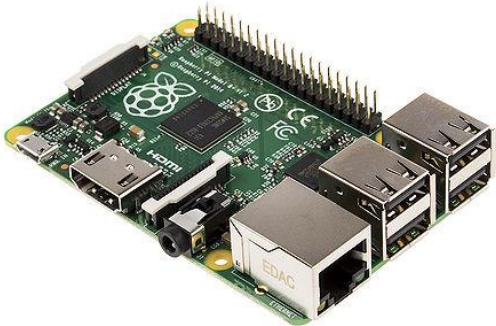

(Entry Level 001)

Objective

Objective of this course is to enthuse and inspire aspiring engineers to embrace the wonderful world of Electronic Product Design and Manufacture and leverage the acquired knowledge to facilitate the development of Made In Ghana electronics products marketable on the world stage. In terms of technological development, engineering know how in Ghana could be characterised as mediocre; only taught to maintenance and installation level - of other people's products!. There are no serious product design and development as practised in the West and in countries such as India, South Korea, Malaysia, Singapore and of course China. This introductory course will kit participants with the tools and knowledge required to explore to their full potential ideas they have been dreaming about till now or for engineering students enhance their knowledge of state of the art in electronics product design. At the same time it will liberate the future creating enhanced ownership and preparing them for an active role in world transformation.

Preamble

About This Course: Embedded computer systems unique architecture and flexible development environment enable engineers and enthusiasts to design, develop and build systems (electronic devices and modules) within a relatively short time. In this hands-on course, you gain extensive experience with simulation techniques, electronics design, schematic capture proper documentation, C programming and its object-oriented features. You learn to build your own embedded system assembled in a quality plastic enclosure which you take with you at the end of the course. Each participant will be supplied with a laptop during the course duration, fully configured with all the necessary software development platform. For those who prefer to use their own laptops all the training software will be loaded onto them.

	
Example Embedded Computer System - The Inside	Example Embedded Computer System - The Outside

You Will Learn

Topic	Days
• History – How it all started - The need for Embedded Systems	1
• Basic Electronics Principles	5
• Digital and Analogue Electronics	4
• Interface Techniques and Simulation	5
• Logic Concepts in Electronics	5
• Embedded Systems Architecture	5
• Tools	3
• IDE	2
• Embedded C programming	5
• Code Compilation and Upload – How it all joins together	4
• Design and build your own project selected from a suitable list	5t

Important Course Information

This course is suitable for the following clientele::

- University Graduate, College or Polytechnic Student with Science, Maths, Engineering or Software programming background
- SSS Student
- Hobbyist
- Futurist with creative ideas
- Enthusiast
- Manufacturers who want to enhance product quality and explore new lines
- Engineering Consultants
-

Basic Requirements

- Knowledge of Maths and Science to SSS level
- Familiarity with use of a Personal Computer

Course Outline

Location

611 Link Road
P.O. Box LT226
Lartebikorshie
Accra, Ghana

Tuition Fee

GHs 1995

How To Contact Us

Tel:0302 959055
Mob: 0200835401

Training

Hands-on Electronics Design training
Hands-on Software training
Hands-on product build and test