

Embedded Linux Training

Duration : 60 hrs

- An overview, open source concept,
- Linux file system,
- Development environment and tools
- Linux file system
- Kernal space and its interface to user space,
- Shell and basic shell commands,
- Basic IP filters
- Linux basic model,
- Scheduling and priorities,
- Comparing linux to other RTOS,
- Tools chain overview
- POSIX Thread
- Synchronization and communications
- C signals
- /proc and /sys for kernel 2.6
- Dynamic modules and Procs
- Raspberry Pi programming using linux

Matlab Training

Duration : 60 hrs

- Introduction to Matlab - Matlab as {best} calculator, Standard Matlab windows, Operations with variables : Naming , Checking existence , Clearing , Operations,
- Arrays : Columns and rows: creation and indexing , Size & length , Multiplication, division, power, Operations ,
- Writing script files: Logical variables and operators, Flow control , Loop operators ,
- Writing functions : Input/output arguments, Function visibility, path. c) Example: Matlab startup
- Simple graphics : 2D plots , Figures and subplots , Data and data flow

- Data types : Matrix, string, cell and structure , Creating, accessing elements and manipulating of data of different types ,File Input-Output , Matlab files , Text files , Binary files , Mixed text-binary files
- Communication with external devices : Serial port , Parallel port , Sound card , Video input Matlab course Fall 2004 ,
- Function minimization and parameters search. 1. Polynomial fit a) 1D and 2D fits b) Data windowing c) Error bounds 2. Arbitrary function fit a) Error function b) Fixing parameters
- Goodness of fit :criteria , Error in parameters
- Handle graphics and user interface: Pre-defined dialogs , Handle graphics , Graphics objects , Properties of objects , Modifying properties of graphics objects , Menu-driven programs , Controls: uimenu and uicontrol , Interactive graphics , Large program logic flow

PCB Design Training

Duration : 80 hrs

- **PCB DESIGN PROCESS AND OVERVIEW** Conception Level Introduction: Specifying Parts, Packages and Pin Names, The Partlist, The Netlist, Making Netlist Files, Placing Parts, Routing Traces, Adding Text, Plot and Drill Files, PCB Layout, Layer List and Selection Mask, Panning and Zooming, Projects, PCB Elements.
- **PCB DESIGN PROCESS** Board Outline; Parts-Anatomy of a Part, Partlist, Editing Parts, Reference Designator; Mounting Holes; Nets, Ratlines and Routing; Nets-Netlist; Ratlines; Vias; Modifying Traces, Swapping Pins; Importing Netlist; Copper Areas; Text; Solder Mask Cutouts; Groups; Design Rule Checking; Exporting Drill and Gerber Files; Drills; Footprints and Libraries Adding and Editing Pins, Polylines.
- Application Oriented Design and Fabrication Schematic Diagram, Creating the Project, Importing the Netlist File, Drawing the Board Outline, Adding Mounting Holes, Placing Parts, Adding Parts and Editing Nets, Adding Copper Areas, Routing, Nets, Ratlines and Routings, Adding Text, Checking Design Rules, Making Gerber and Drill Files, Fabrication Process and Methodology.

Embedded System with C++

Duration : 60 hrs

- Inheritance
- Polymorphism
- Storage Management
- Input Output C++ Programs
- Exceptions
- Templates

VHDL PROGRAMMING Design

Duration : 60 hrs

Dataflow Modeling :

- Introduction,
- continuous assignments,
- expressions delays,
- datatypes

Behavioural Modeling :

- Introduction,
- process statements,
- other statements under process statement,
- if-then statement,
- when statement,
- case statement,
- while statement,
- Structural Modelling
- Mixed Modelling

- **Structural & Mixed Modeling**

- **VERILOG Design**

Designing Embedded Software Using Real-time Operating System

Note:Net Tech India also provides seasonal training and basic assistance for final year projects. We also provide placements for the upcoming fresher's and also for experienced holders.

EMBEDDED SYSTEM TRAINING **List of the Software's Requirement**

- **VHDL & Verilog programming** : XILINX (ISE Simulator-free download available)
- **Embedded Linux Training**: RTLINUX
- **PCB Design Training** :ULTIBOARD, ORCAD, EXPRESS LAB

203,RATNAMANI BLDG, DADA PATIL WADI, OPP. ICICI ATM, THANE WEST.
Web: <http://www.nettechindia.com>, Mob.: 9870803004 /5