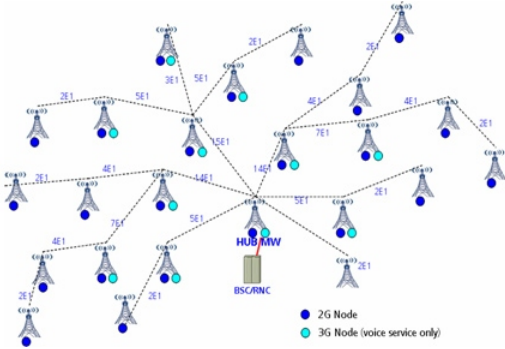


Telecom



Corporate Trainer's Profile

Corporate Trainers are having the experience of 4 to 12 years in development, working with TOP CMM level 5 companies (Project Leader /Project Manager) qualified from NIT/IIT/IIM and work exp in USA and UK.



CMM (Capability Maturity Model) level Project Standard:-

The Capability Maturity Model (CMM) is a method for evaluating the maturity of organizations on a scale of 1 to 5. Get the Opportunities to work on Client Projects Of US/UK, which follow the all standard of CMM level 5 Company.

Projects



MOTOROLA

Bluetooth Technology Application Development

About the Course

The development of the Bluetooth technique started in the early nineties. Today it is a well-defined standard that has been adopted by more than 2000 companies who have the ambition to develop Bluetooth products. Bluetooth will initially be integrated in products related to mobile phones and hand-held computers. Within the near future, Bluetooth will be found in many different products and have a large influence on everyday life. Bluetooth is a wireless communication protocol, designed to replace today's cables. With this technique it will be easier to connect devices together to send data and sound in a personal area network. This course will give you an introduction to the Bluetooth protocol and explain how to apply this to practical applications.

Aims of the course

After this course you will have knowledge about the Bluetooth Wireless Technology and you will be able to develop a Bluetooth application based on a predefined stack.

Participants

This course is for engineers who plan to use Bluetooth in their products, and need to know how to use it, which tools to use and what limitations there are.

Previous knowledge

No previous knowledge of Bluetooth is required. Basic knowledge of the C programming language and how to use development tools would be an advantage.

Practical exercises / Tools

This course offers a combination of both theory and practice. There will be a demonstration of a Bluetooth application, showing signal sequences through the stack. You will also develop your own application during this course, based on a predefined stack.

Course Content

Introduction

The background of Bluetooth wireless technology.
What is needed to develop a commercial product with Bluetooth?

Bluetooth concept

Comparing technologies.
How does Bluetooth work?
Radio Technique.

Network handling

What system requirements are there in a wireless network interface?
Fundamental ideas about network handling, how to handle packets, frequency jumping, Time Division Duplex.

Qualification and testing

How to qualify and test Bluetooth.

The stack

What is a stack?

Introduction to the different parts and important functions of a stack.

Develop or buy?

What stacks are there on the market?

Bluetooth protocol layers

- Baseband
- Link Manager (LM)
- Host Controller Interface (HCI)
- Logical Link and Control Adaptation Protocol (L2CAP)
- Serial Cable Emulation (RFCOMM)
- Service Discovery Protocol (SDP)

Profiles

What is a profile and how is it used?

How to add a new profile to the specification?

How to test and certify profiles?

Does a real Bluetooth product need to use a profile to be qualified?

Bluetooth profiles

- LAN Access
- File transfer
- GAP (Generic Access Profile)
- GOEP (Generic Object Exchange Profile)
- Cordless Telephony
- Headset

Bluetooth Certification Process

Future Bluetooth standards

- Transfer capacity
- Profiles

Security

What are the security aspects?

Which different security mechanisms are available?

Platforms and development tools

Which development tools are there available today?

Which application interfaces (APIs) are there on the market?

How to use APIs?

What are the opportunities and problems when implementing Bluetooth into your product.

Future visions

How does the future for Bluetooth look?

In which areas will the development work be effected?

Bluetooth together with other technologies like WLAN, HyperLAN, GPRS and 4G.

The application

Presentation of an application and its structures for each participant to work on the rest of the day.

Contents of the application

- Initialisation
- Inquiry
- Service discovery
- Create a connection
- PIN security and bounding
- Receive data
- Send data
- Save data on the databus
- Change connection

Course Fee: 12000 Rs.

Course Duration: 2 Days (8 Hours)

Venue :

Miracle Corporate Solutions Pvt. Ltd. Sector-2, Noida-201301