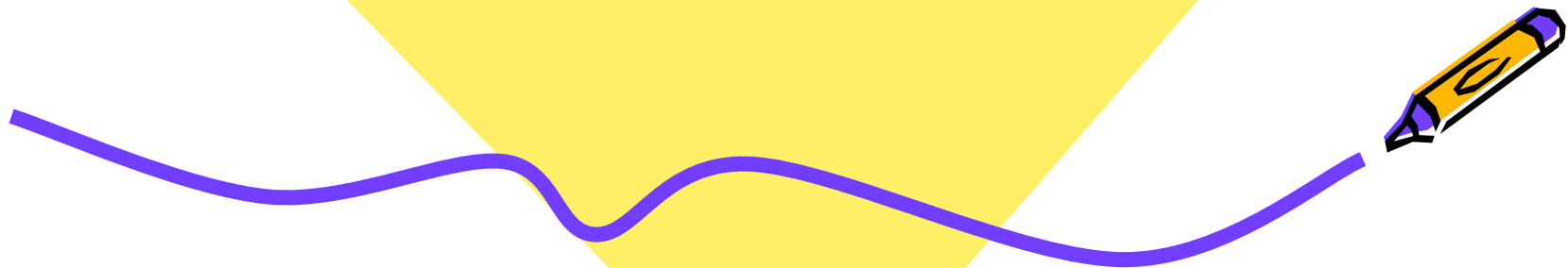


*My Memorable Placement  
in NEC, France  
2003/2004*



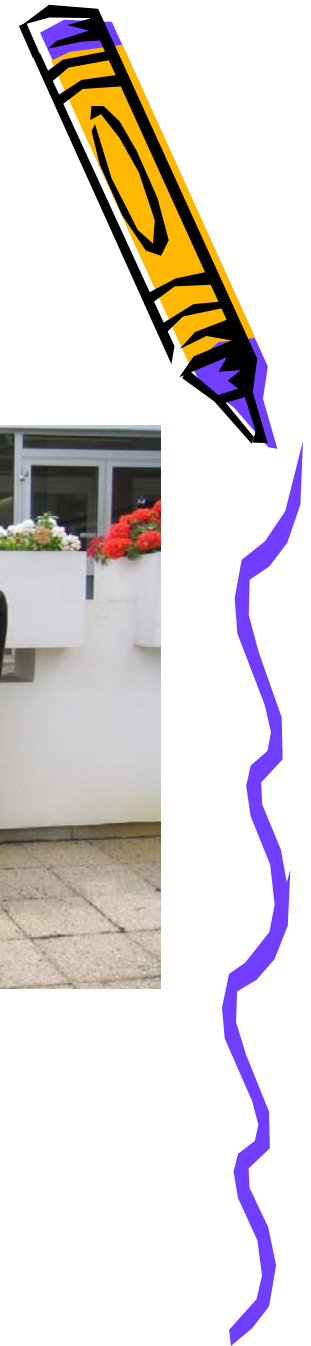
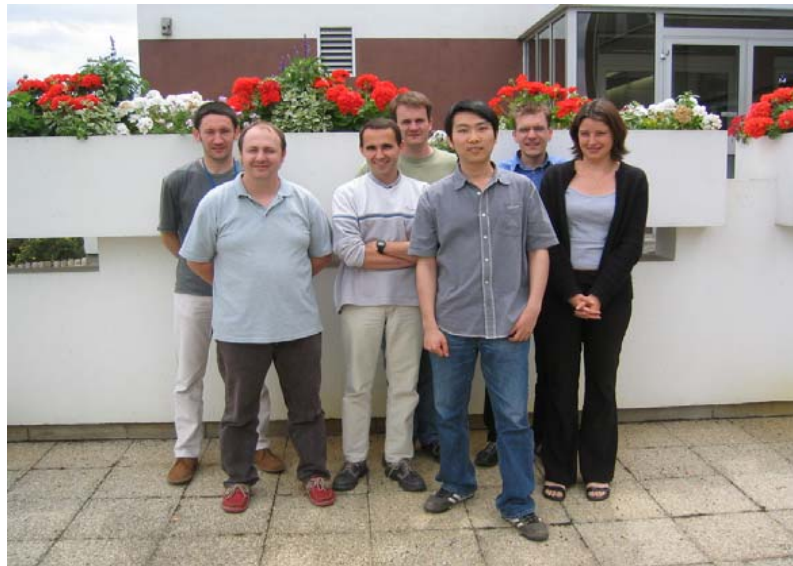
# Company and the Team

- Company: NEC Computers International, Angers, France
- Team: New Concept & Technology Team (NC&T), Software Engineering
- From 6<sup>th</sup> Sep 2003 to 9<sup>th</sup> Aug 2004

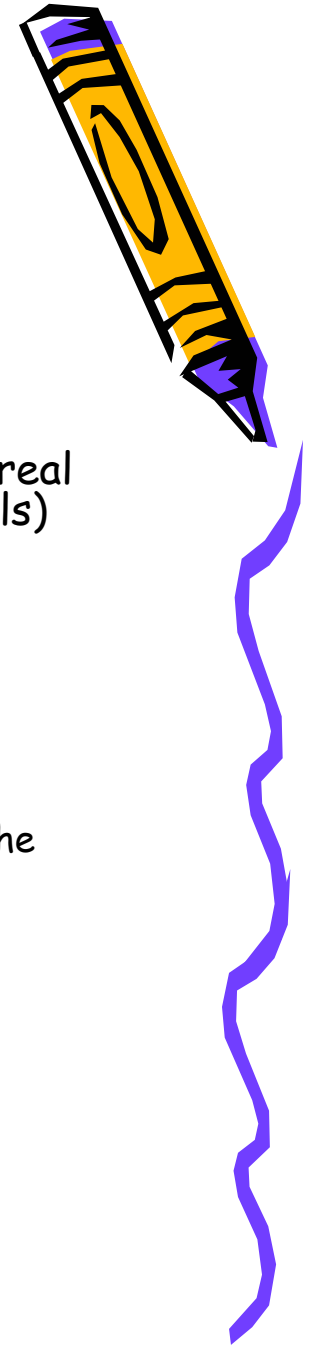


# Team Members and Tasks

- Members:
  - Manager (My supervisor): Luc
  - Senior Technician: Florant
  - Senior Software Engineer: Christian
  - Senior Software Engineer: Cedric
  - Project Coordinator: Christoph
  - Project Coordinator: Delphine
- Tasks:
  - Design & Implement Software Packages bundled with hardware products (PCs, Digital Home Devices, etc)
  - Working with Marketing group, thinking of new devices / software
  - Most of the tasks are project based. E.g. PLC project, Digital Home project, Christmas Package, etc..



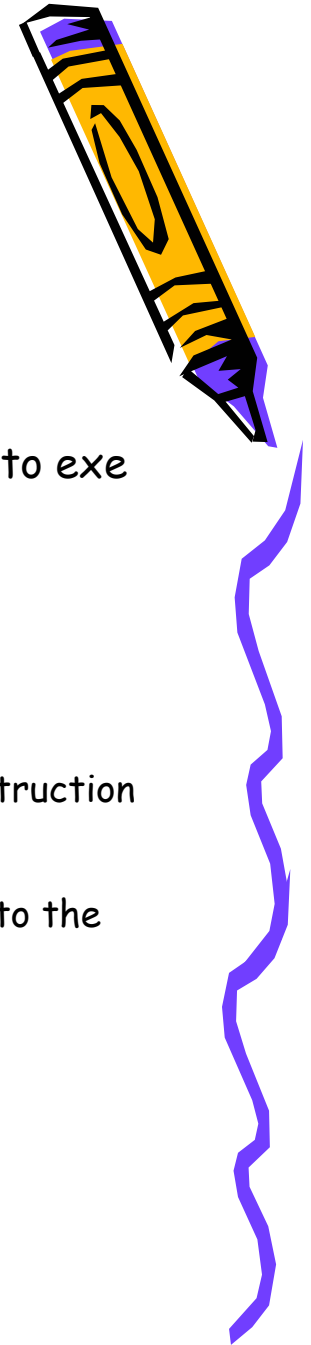
# My Work: Long Term Project 1



- **Virtual CD**
  - **Purpose:** virtual cd engine in Windows NT platform, simulating a real cdrom by reading data from cdrom image files. (like Daemon Tools)
  - **Background Knowledge needed/studied:**
    - Windows Driver Architecture
    - SCSI Specification
    - Cdrom device and cdrom image specification (ISO9660)
  - **Skills needed/practised**
    - Windows Kernel Mode Driver Development
    - Self learning & Information Seeking: few background knowledge at the beginning
    - Report writing and Presentation: progress presentation
  - **Difficulty & Challenge:**
    - lack of official information
    - kernel mode programming



# My Work: Long Term Project 2



- **Portable Executable File Protection**
  - **Purpose:** develop a program capable of directly adding functions to exe binary files, without source recompilation.
  - **Background Knowledge needed/studied:**
    - Portable Executable file format
    - Mechanisms of Windows executable file loaders, and DLLs
    - Some Anti Virus Applications' virus detection mechanism
  - **Skills needed/practised:**
    - Assembly language Programming: for the whole project, intel x86 instruction set
    - Windows 32 bits application programming
    - Self learning, Information Seeking and Presentation: a presentation to the whole Engineering Group
  - **Difficulty & Challenge:**
    - Assembly Programming.



# My Work: Short Term Projects

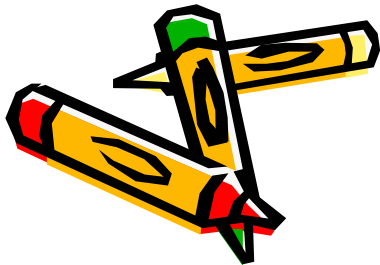
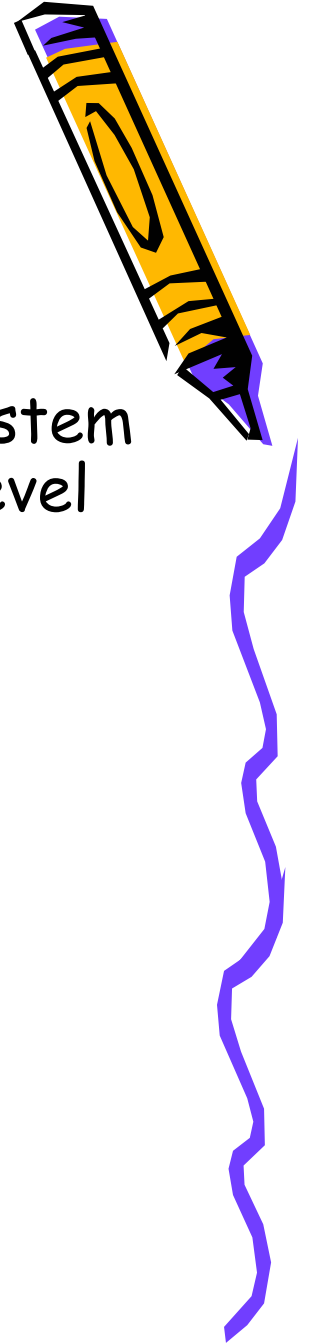


- **Linux Evaluation:**
  - Purpose: To have NEC's customized Linux distribution.
  - Done: Build tiny bootable Linux distribution on floppy and cdrom, from scratch
- **Anti Spam Products Benchmarking:**
  - Evaluate spam tricks, and benchmarking anti spam software
- **Internet Connection Sharing tech & products Benchmarking:**
  - Evaluate different ICS techs, benchmarking different commercial ICS products, and recommend some to the marketing group
- **Miscellaneous Tasks:**
  - Team's Weekly meeting
  - Assembling and preload testing systems
  - Etc...



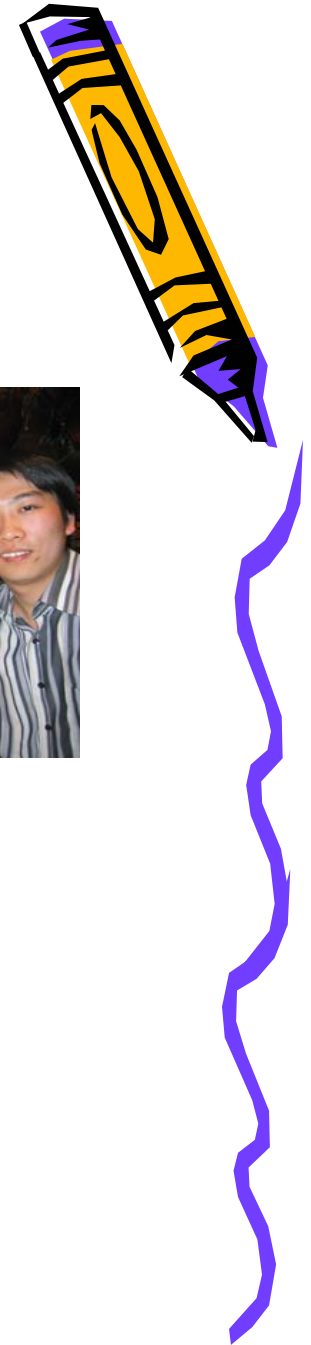
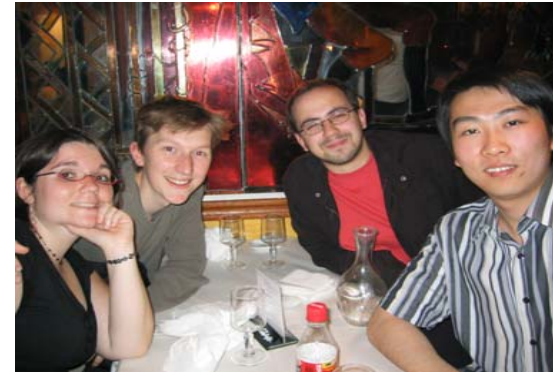
# Achievements

- Getting deeper understanding of computer system architecture and valuable experience on low level system programming
- Enhance self-learning ability
- Beyond the Work
  - Experiencing Different Culture
  - Practicing French
  - Working in a company & in a group
  - Interpersonal Relationship
  - More.....



# My Life:

- Weekends:
  - Happy and relax...
  - Meeting Friends...
  - Visiting French Cities...
  - More..

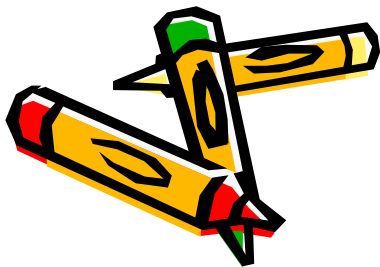
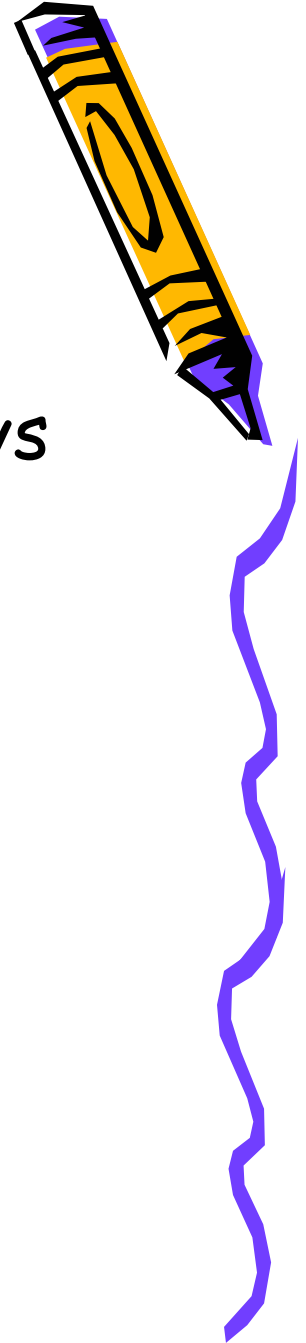




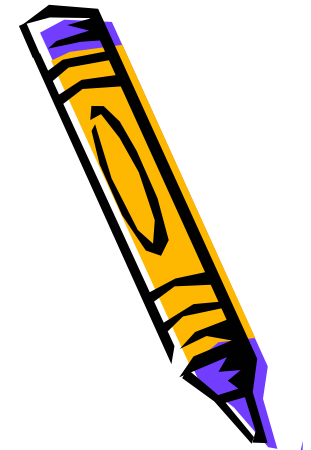
# My life



- Holidays: big days for traveling !!
  - Planning
  - Packing
  - Getting off !!!



# Memorable experience.....





~FIN~

Merci!!

