Samsung Electronics
Digital Media & Communications Business

Division Information

- Visual Display Division
  - LCD TV, PDP TV, Blu-ray Player, HTS, LCD Monitor, Projector, Electronic Picture Frames
- Digital Printing Division
  - Color/mono laser printer, inkjet printers, Multi Function Printer, B2B solutions & consultation
- Refrigeration Division
  - Refrigerator, Air Conditioner, Washing Machine, Air Cleaner
- Mobile Communication Division
  - Mobile handset, Smartphone, MP3 Player, Voice Recorder
- Camcorder Business Team
  - HD Camcorder, SD Camcorder
- Telecommunication Systems Division
  - Mobile WiMAX devices, Set-Top Box, CDMA/WCDMA, IP PBX
- Digital Media & Communications R&D Center
  - Research & Development of the advanced and core technologies
- Computer Systems Division
  - Laptop PC, Desktop PC, Ultra Mobile PC, Mobile Computing Devices
- Media Solution Center
  - Mobile Service Portal, Contents & Services, On-line Marketing

Career Opportunities

Visual Display Division

- Hardware
  - Software
    - Firmware (C/Assembly, ARM/Linux/PPC/X86), OS (sPos, Linux, WinCE), Device Driver, Application & Middleware Software (Java/XML, GUI, ACAP, OCAP, MPK, PVR, JVM), Media Processing (AV Media Codec, 3D Processing), Multimedia (MPEG-2/4/7/11, Security/DRM, Copy Protection, Cryptography), Software Architecture, User Interface, Home Network (TCP/IP, UPnP, Wireless LAN, 1384, USB)

Mechanical Design

  - Video / Audio

Digital Printing Division

- Software
  - System design/control (scanner/faxprinter/copier), Chip Devi/Driver/ASIC/Microprocessor Control, Job Management and User Interface, Real time OS (sPos, VxWORK), and Kernel design/Printer/Copier/Scanner/Faxing/Print, Print Command Language (PCL xx) and Page Description Language, HTML/XHTML PCLX (Driver, Color), OS Driver (sLinux, Linux, Mac), Team Driver, Image application (Editor, OCR, PC-Fax, E-mail), Document Management System
  - Network
    - Network Management and Server Application Software (HTTP/IPP, Computer Communication and Interface, UNIX, LINUX, Mac), Cable / Wireless LAN (Communication / Protocol)
  - Hardware
  - Mechanical Engineering
    - Structure and Component Design, Dynamicator Design and Motor Control, Sheet material Transportation & path Design, Vibration/noise control, Temperature & Fluid movement analysis
  - Material
    - Toner/Polymer, Nano Material, Pigments, Rubber/tribology & Rheology, Visual Receptor (Organic Photo Receptor)
  - Optics
    - Design, Laser Optics & Control System, Opto-Mechanical Structure Design

Digital Appliance Division

- Software
  - Firmware, Device driver design, SE(SPI, SQA, Software structure design), Embedded Linux, Nucleus, VxWorks, WinCE
  - Hardware
    - Power Control Inverter, SMP5(energy, Saving technology)
  - Inverter Micro/COM design, Fan Motor, PM Motor design and Magnnet application tech.
  - Linear Actuator control technology, high power inverter Power Pack

Mechanical Engineering

- Driving Mechanism Design, Product design, 3D Modeling design & analysis, fatigue fracture, analysis, Fan design, thermal flow simulation, valve design and compressor flow analysis, Energy saving technology, Cooling cycle design, High efficiency heat exchanger design, Air flow system design, cooling cycle development, Multi-inverter cycle, GHP design and cycle analysis, Flow related noise analysis and low noise/vibration design, Rotor vibration/Noise analysis, magnetic noise analysis acoustic fixed sound, Compressor valve, Compressor design technology and structural vibration experiment and acoustic-structural coupling design technology, S-noise and vibration control

Material & Environment

- Waste water treatment, Package saving/substitution, deodorant technology, Pasteulization, deodorant, and fragrance, Chemical processing

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Camcorder Business Team

Software
- Application Software, Embedded Software, Linux, WinCE, PC Application(Visual C++/Programming, Multi Media related PC Software), USB related Software/Device Driver, PC Application), Embedded OS/RTOS(Linux, Vxworks, Ucos-ll), MP3 Firmware development, DVD Recorder
- Digital Circuit Design, video signal processing, Digital System Design, Digital Audio-Mobile hardware, ARM & DSP Processor Application, Video Hardware Application, RF design, High quality speaker design for experts, and circuit composition Design
- Product platform design and Deck design, Die/mould design
- Else
  - DVD optical pick-up, CAM camera Lens design, technology planning

Digital Media & Communications R&D Center

Software
- SoC Architecture design, Digital Circuit Design/RTL design and FPGA embodiment, ASIC development, RFI/Analog Circuit design, PLL/JPEG circuit design, Mixed Signal Circuit design, OFDM Algorithm and Architecture design, Display Processor and Peripheral Design for Multimedia Chip, CMOS Analog IC design(Serial Interface, ADC) for camera, Image Signal Processor development for camcorder/camera, SoC Platform development for image signal processing of printer, Audio signal processing, Embedded architecture design based on Multi Processor, Large mount of image data processing and Parallel Processing Technology, New type of Codec hardware design and Software development, Multimedia System, Image processing Hardware with UD and Display Solution
- Cable/Wireless Network
  - Low power wireless LAN and UWB development, Network Architecture/Protocol and Application Software development, P2P and Internet Protocol development, Development of Hand-off technology on different Networks

User Interface
- GUI Design, Usability evaluation, IA, Prototyping, HCI
- Next Generation System
  - Air Interface : Modulation, Duplexing, Multiple Antenna, Multiple Access, Receiving Technology, Channel Coding, Relay, Femo/Pico-cell, Cognitive Radio, QoS, Resource Management, Overhead Reduction, Error Control, MAC Layer Service, Mobility Management
  - Network Service : QoS, ITPV, Mobile IP/IPv6, VoIP, IP Platform, IMS
- Next Generation Handset
  - Air Interface : Modulation, MIMO, Hybrid ARQ, Duplexing, Multiple Antenna, Multiple Access, Synchronization Receiving Technology, Channel Coding, Overhead Reduction, Error Control, MAC, Management, Network Entry Protocol Stack
  - SoC : High Speed Interface, Programmable Hardware, SDR Platform, Multi-Processor, Memory, Power Block, Low Power
  - Software Platform : Mobile OS(Window Mobile, Linux, Symbian), Middleware
  - Application : Messaging, Phone Application, LBS, Browser, Mobile TV, Security
  - Interface : Connectivity, Input Device, Camera, Audio, Display, Intelligent UI, Sensor
- Multimedia : Image/Audio Processing, Media Processing, Interaction Processing
- RF & Antenna : Antenna, Multi Mode Multi Band, Reconfigurable RF, Transmitter, Receiver, Front End, System, Signal Quality
- Else
  - Speaker, Digital AMP development, Camera System and Optic Lens design, Holographic Storage/Printer Optical system development, Display system design and evaluation, New generation Hardware Platform factors based on Multicore

Media Solution Center

Solution Development
- Application Software : Windows/Linux based Application, C/C++/C#Java, Net Framework, MFC/VC++, DirectShow, WPF, Component based development, Network Program Development
- New Service Software : Embedded OS / Win Mobile App Development, Web Interface, C/C++/C#Java/ MFC, Multimedia Software

Platform Development
- Service Platform Software : Collaboration system, Identity management, Authentication/Authorization management, Group/Presence management, Location based service, Context sensing/logging/ management/analytics, Content management system, Augmented reality
- Mobile Service Software : Social networking system, Mobile advertisement

SE/SQE
- Software Test Planning and Test Case Development, Software Test Automation, Test Tool Analysis, Unit Test, Defect Management
- UX
  - User Research, Examination Planning, UI Planning and Design
  - GUI Design, Web/Software UI, Usability Design

Planning
- Mobile Service Business Planning, New Business Planning

Marketing
- Market Research, Market Sensing, Market Analysis, Global Content/Service Planning, Management, Internet Service Establishment and Operation

Business/Marketing
- Domestic/Overseas Sales & Marketing, Product Planning, Marketing Communication, Supply Chain Management, Business Planning & Management, New Business Development, Strategic Alliance, Finance & Accounting, HR, Purchasing

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