

Juan Antonio Escalera

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OBJECTIVE

To obtain a summer internship in the area of RF engineering, RF IC design, VLSI design of wireless receivers and transmitters. To expand my knowledge of wireless communications.

EDUCATION

Master of Science in Electrical Engineering

The University of Texas at El Paso (UTEP) May 05
GPA 3.66/4.00

Bachelor of Science in Electrical Engineering

The University of Texas at El Paso May 02

Courses taken: Random Processes, Antenna Engineering, Data Communications, VLSI Design, RFIC Design.

EXPERIENCE

Direct Conversion Receiver – Research Project, UTEP

Research Assistant (Oct. 03 – current)

- Designing and implementing a multi-standard, wideband direct conversion receiver IC using Agilent's ADS. Modules to be designed include the mixer, LNA, local oscillator and signal filters
- In charge of designing and simulating different Gilbert mixer architectures in ADS
- Designing Layout for fabrication of direct conversion receiver on chip
- Solving implementation problems of direct conversion receivers using TI's DSP technology

IThinkCube Web Development, El Paso TX

Project Coordinator & Web Developer (May 02 - Aug. 03)

- Manager and proposal writer for web development projects
- Developer of code modules and email marketing products using PHP and MySQL

Pan American Community Hospital, El Paso TX

Network Administrator (Dec. 01 – Jul. 03)

- Developed intranet tools for patient statistics reporting and public website
- Provided tech support for 60+ workstations, built and maintained database and web servers
- Performed network wiring of sections of the building following CAT5 standards

Nortel Networks CDMA RF Engineering, Overland Park KS

Internship Student (Jan. 01 – Aug. 01)

- Performed planned drive testing of Sprint PCS CDMA wireless networks in several cities
- Conducted performance analysis of wireless networks based on system wide call statistics
- Detected and fixed areas of poor RF coverage based on mobile to base station messaging
- Coordinated team of drive testers in a 3G deployment project in Indianapolis IN
- Trained Nortel's staff on the use of Agilent's Technologies RF testing equipment

INFOLINK Internet Service Provider

Technical Support Engineer (Jun. 99 – Dec. 00)

- Provided on-site and telephone support for ISP users
- Performed repairs, upgrades and installation services of PC's
- Offered network consulting services to local companies

TECHNICAL SKILLS AND QUALIFICATIONS

EDA Tools

- Extensive knowledge of Agilent's ADS
- Experience using Cadence SpectreRF

Database

- Extensive Knowledge of MySQL 4.0.12
- MySQL-Front 2.1 Database Manager
- PhpMyAdmin 2.3.2 Database Manager

Web Scripting Languages

- Extensive knowledge of PHP 4.3.2
- Experience with MS ASP
- Experience using JavaScript

Operating Systems

- Fully Experienced on Windows 95, 98, NT 4.0, Me, 2000 workstation, 2000 Advanced Server and XP Professional

- Experience using Red Hat Linux 8.0 and Mandrake Linux 9.0

- Experience using Sun Solaris 8.0

Networking

- Installation of 100BaseT unmanaged switches
- Configuration of Cisco 1750 Routers
- Configuration of Firewall Proxy and VPN Utilities under Linux
- Extensive experience of TCP/IP class addressing and sub-netting

PROFESSIONAL ORGANIZATIONS

- Member of The Society of Mexican American Engineers & Scientists (MAES) UTEP
- Student Member of the Institute of Electrical and Electronics Engineers (IEEE)