

WAYNE A. JONES
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EXPERIENCE:

Director and Professor – Engineering Technology 2001 to present
Collin County Community College District, Frisco, TX

- Instruct electronic engineering courses such as telecommunications systems including telephone/telephony systems, high speed data networks, DSL, cable modem access, ISDN, PBXs, DC and AC circuits, fiber optic networks, DWDM (Dense Wave Division Multiplexing), LAN/WAN topologies along with semiconductor manufacturing courses.
- Directing a task force to investigate the processes and requirements necessary for departmental ABET accreditation.
- Developed curriculum and courseware to support a new program in optical engineering technology.
- Supervise ET laboratories and lab assistants.
- Serve as acting dean during the absence of ET dean.
- Assisted ET dean in the creation and justification of the ET budget as it relates to electronics and telecommunications.
- Coordinate the Electronics, Semiconductors, and Telecommunications program areas.
- Schedule ET semester course offerings and assign faculty to course sections.
- Establishing the first student chapter of IEEE (Institute of Electrical and Electronic Engineers) at CCCCD – expected student participation from electronics and computer networking students.
- Implementing the Texas Higher Education Coordinating Board's (THECB) field of study programs in engineering technology (A.S. Electronic and Computer Engineering Technology) and engineering (A.S. Engineering).
- Cultivating key contacts at SMU, UTA, UNT, and UTD to facilitate seamless articulation agreements that allow ET graduates to matriculate to 4 – year engineering and engineering technology schools.
- Working with officials in the SMU engineering department to become the first community college in the metroplex to implement the Infinity Project.
- Serve on search committees and assist the ET dean in the hiring of faculty and technical staff.
- Marketing and promoting the division and university at various events.

Software Development Engineer –Technical Lead 1997 to 2001
Alcatel USA, Plano, TX

- Integrated, tested, and developed broadband (softswitch) next generation voice/data telecommunications switching networks featuring Voice over IP, Voice over ATM, Fast Ethernet, Gigabit Ethernet, access/trunking gateways.
- Designed and developed network tools and instrumentation that facilitated a 100% desktop testing environment for call processing (MegaCo/MGCP, SS7, OC3, SONET, ISDN, X.25, InBand, T1/E1) engineers.
- Performed software/hardware installation, implementation, and testing of new software package releases on internal and external customer sites including customer training and post installation support.
- Administered network including software/hardware configuration management for Alcatel's development and test internal telecommunications switching network.
- Received numerous incentive awards for outstanding technical contribution and consistently ranked as an "exceeding expectations" performer and "excellent" team player by supervisor.

Graduate Research Engineer, 1993 to 1997

Center for Advanced Microstructures and Devices (LSU), Baton Rouge, LA

- Conducted X-ray and ultra-violet optical lithography and processing of semiconductor wafers within a Class 100 clean room facility.
- Researched and characterized the physical transport mechanisms and surface effects of III-V advanced semiconductor systems such as InAlGaAs/InGaAs Hetero Junction Bipolar Transistors (HBTs).
- Utilized synchrotron light source to research and design sub-micron and micro-electro-mechanical systems (MEMS).
- Investigated and developed pressed and thick photo resist technology – reported results at annual symposium.

Management (Ameritech Scholar), 1990 to 1991

Ameritech, Milwaukee, WI

- Designed and implemented computer programs utilizing database management software and Bellcore's Trunks Integrated Record Keeping System (TIRKS).
- Generated reports on central office frame fill that are beneficial in forecasting future inventory requirements and capital investment.
- Assessed and evaluated new and emerging information technology software and systems.

EDUCATION:

Master of Science in Electrical Engineering, 1996

Louisiana State University, Baton Rouge, LA

- Completed advanced courses in optical electronics and lithography.
- Published 200 page master's thesis and several papers on advanced high speed semiconductor devices for communication systems.
- Taught (2 years) mathematics to inner-city grammar school students in afternoon program sponsored by LSU school of engineering.

Bachelor of Science in Electrical Engineering, Cum Laude, 1992

Southern University and A&M College, Baton Rouge, LA

- Chapter President – Mathematical Association of America.

Honor Student, Pre-Engineering Program, 1989

Nicholls State University, Thibodaux, LA

- Taught (3 years) freshman English and mathematics students in program sponsored by the JTPA (Job Training Partnership Act).
- Served (2 years) as a youth counselor for middle school aged students in summer program sponsored by the JTPA.

SKILLS:

Test/Design Tools

- Optical Metrology, Microscopes (SEM), Optical Test/Characterization Instrumentation, INET, MGTS, SPICE, SAGE, MathCad, Semiconductor Processing Equipment, Spectrum Analyzer, Frequency Counters, Tone/Signal Generators, Oscilloscopes.

Programming Languages

- C++, HTML, Assembly, Basic, Fortran.

Operating Systems

- Windows, Windows NT, UNIX, HP.

**ORGANIZATIONS
and CERTIFICATIONS:**

IEEE (Institute of Electrical and Electronics Engineers, Inc.) – GOLD Member Rank

- IEEE Lasers and Electro-Optics Society.
- IEEE Computer Society.

Alcatel Leadership Association (National Management Association)

- Membership Booster (2000 – 2001).

Toastmasters International (Communication and Leadership)

- Lt. Governor Marketing (2000-2001).
- Alcatel Club President (1999 – 2000) [President's Distinguished Recognition].
- Area 24 Governor (1999 – 2000) [President's Distinguished Recognition].
- Vice President Education (1998 – 1999) [Select Distinguished Recognition].
- Assistant Area 24 Governor (1998 – 1999) [Select Distinguished Recognition].
- Competent Toastmaster (CTM) and Competent Leader (CL) Award.

Passed Fundamentals of Engineering Exam

FCC Radiotelephone License with Ship's Radar Endorsement

HONORS/AWARDS:

- Numerous Alcatel Incentive Awards for Outstanding Technical Achievement.
- Eta Kappa Nu (Electrical Engineering Honor Society).
- Phi Alpha Theta (History Honor Society).
- Alpha Lambda Delta (Academic Honor Society).
- Phi Eta Sigma (Academic Honor Society).
- President's and Dean's List (numerous times).
- Chancellor's Scholar Award.
- Sociology Research Award (Presented paper at Mid-South Sociological Conference).
- Sophomore of the Year Award.
- Ameritech Scholar.
- Minority Leadership Award.
- National Engineering Award.

PAPERS:

N. Valsaraj, R. Sabbah, W. Jones, K. Ikossi-Anastasiou, "Performance of InAlGaAs/InGaAs HBTs with Tunneling AlAs Barrier Layer", High Speed Semiconductor Devices and Circuits, 1997. Proceedings., 1997 IEEE/Cornell Conference on Advanced Concepts, pages 154 – 163.

K. Ikossi-Anastasiou, W. Jones, R. Sabbah, N. Valsaraj, "Emitter Size Effects in High Speed Semiconductors," System Theory, 1997., IEEE Proceedings of the Twenty-Ninth Southeastern Symposium on System Theory, 1997, pages 410 – 414.

W. Jones, "Emmitter Size Effects in InAlGaAs/InGaAs Heterojunction Bipolar Transistors," Master's Thesis, LSU Press, December, 1996, 206 pages.

N. Valsaraj, R. Sabbah, W. Jones, K. Ikossi-Anastasiou, C.S. Kyono, S.C. Binari, W. Kruppa, and H. Dietrich, "High-Speed Semiconductor Devices for Communication Systems," System Theory, 1996., IEEE Proceedings of the Twenty-Eighth Southeastern Symposium on System Theory, 1996, LSU, Baton Rouge, LA, pages 353 - 357.

W. Jones, "Thick and Pressed Resist Processing and Technology," Proceedings of the First CAMD Symposium on Science and Technology, Baton Rouge, LA, 1995, 5 pages.

C. Johnson, Jr., E. Arvie, and W. Jones, "A First Lesson on the Integers Inspired by the NCTM Standards," Journal of Texas Mathematics Teachers, 1994 (Publication Accepted).