James Y. Lee

GOAL

Help students to learn the basic concepts of physics and apply those concepts to solve real life problems.

EDUCATOR EXPERIENCE

UNIVERSITY OF NORTH TEXAS AT DALLAS   Physics Instructor   2016-
- College physics (Conceptual physics and algebra based physics)

RICHLAND COMMUNITY COLLEGE   Physics Instructor   2003-
- College physics (Calculus based and algebra based physics)

COLLIN COUNTY COMMUNITY COLLEGE   Physics Instructor   2012-2013
- College physics

EASTFIELD COMMUNITY COLLEGE   Physics and math Instructor   1990-1993
- College physics and mathematics

WEST VIRGINIA UNIVERSITY   Teaching assistant   1979-1984
- College physics

WORK EXPERIENCE

CITY OF DALLAS   **Senior Programmer Analyst**   2004-2010

- Processed weekly payroll using Lawson Application Software.
- Created ad hoc Crystal reports against the Lawson database to retrieve payroll info.
- Did troubleshooting on the Lawson payroll data in Lawson with Crystal Reports.
- Created and ran Crystal reports during payroll run to present payroll data in easily readable format .
- Uploaded payroll data to Lawson.
- Reconciliation of payroll data in Lawson with other financial applications.
- Desktop support in payroll.
- CISCO networking.

TRILLIANT ENGINEERING   **Test Engineer**   2002-2003
Campbell, CA
- Contracted for 3COM Hardware development group.

- Analyzed pilot product line for 3COM network cards through application of various test suites in differing operating environments. Tested for functionality in extreme environments and examined performance under non-specification conditions.
- Operated oscilloscopes, spectrum analyzers, with hardware in environment chambers during tests.

SOFTWARE SPECTRUM   **Systems Analyst**   1998-2002
Garland, TX

- Supported customers in the use of Crystal Reports including designing report layouts, extracting data, presenting graphs and tables, using queries and dictionaries, setting up pick lists, and accelerating retrieve of data in databases.
- Did troubleshooting on Seagate Info (7.0/7.5) and Crystal Enterprise (8.0/8.5/9.0), applications that distribute components across different nodes in a Windows 95/98/NT network. This often involved fixing the underlying Windows network including resolving issues of connectivity, name resolution, or improper setup.
- Created tables, queries and stored procedures in databases (SQL Server, Oracle 8i). Created and scheduled reports against tables, queries and stored procedures. Solved problems involving various databases in a client/server environment. Addressed issues such as accessing databases from a client machine using ODBC or native connections. Configured NT networks in an enterprise environment with complex permission schemes.
- Simulated customer's environments through the installation and setup of Oracle on Windows, Linux and Solaris and SQL Server on Windows.
- Interfaced databases through different types of web servers including IIS 3/4, iPlanet Web Server and Netscape Web Server. Created ASP and vb.net applications to call reports.

TEXAS INSTRUMENTS   **Process Engineer**   1993-1998
Dallas, TX

- Developed and implemented etch processes to manufacture integrated circuits in a state of the art environment.
- Implemented techniques of lithography in the manufacturing of integrated circuits in a production fab.

OPTICAL SCIENCE CENTER   **Research Associate**   1988-1990
University of Arizona, Tucson, AZ

- Led a team of graduate students in a surface science research project. Planned and designed research processes which interfaced with computers and electronic equipment.

SOLID STATE SCIENCE TECHNOLOGY   **Research Associate**   1986-1988
Syracuse University, Syracuse, NY

- Worked in federally funded thin film projects. Used electronic equipment for data acquisition and manipulation.

EDUCATION

West Virginia University, Morgantown, WV.   BS Math ,Physics, MS, Ph D Physics

AFFILIATION
  American Physical Society, Society of Physics Students