GLADYS V. RANGE

P. O. Box 10597, Silver Spring, MD 20914 • 301-622-3329 • 301-633-2993
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EXECUTIVE SUMMARY

Patent award wining, Electro-Mechanical Design and Systems Solutions Engineer.
US Patent Engineering Design Award "Auto-Flow Chemical Sampler"
Reference No. 5501113
"Particle measuring system with sonically measured flow rate"
http://patft.uspto.gov/netahtml/PTO/srchnum.htm
Innovator with proven ability to work independently, while promoting collaboration, Experienced and effective leader. International Knowledge Management Certified Member.

Ability to communicate effectively across all levels, appropriately allocate resources and delegate responsibilities in order to maximize productivity. Fluent in Spanish, some conversational Portuguese and French.

US Army MRMC MeRITS Outstanding Performance Award – April 2005

Implement new state of the art technology to the work environment in order to maximize operational efficiency and increase profitability following applicable regulation, policy, FDA, QC/QA, ICH guidance and DOD specifications and documentation.

Managed a multi-million Clinical Research LIMS (Laboratory Information Management System) US Army command LIMS Pilot, in Bangkok, Thailand. LIMS included 62 laboratory methods adapted to 21 workflows, covering multiple vaccine and emerging diseases clinical trails, sample test, and reporting methods designed to inter-connect, satellite USA Army Command sites.

Managed, and automated HGSI's process for Bio-Analytical, screening, immunogenic, PK Phase 1 and Phase II, clinical subject (Human/animal rule) sample and data, Life Cycle Management for 43 ongoing clinical test studies, including their corresponding cohorts.

Designed, specified, and managed, installation, configuration and validation of HTS (High Throughput Screening) Cell Based Assay Automation, Sequencing Laboratories information data acquisition systems, used at HGSI (Human Genome Sciences Inc.) in
Proteomics drug discovery, for the Bio-Pharmaceutical industry.

Defined workflows evaluated, tested, and modified as appropriate commercial and academic Robotics, oligosynthesizer, DNA PtS shearing device (Reference Acknowledgement http://www.genome.org/cgi/content/full/8/8/848?ck=nck used for Genomic Research in the sequencing facility at TIGR (The Institute for Genomic Research).

Performed Sequencing Laboratories throughput analysis. Analysis led to evaluation of ABI 377 sequencers and development of new product (3700 sequencer) development meeting high throughput and sample capacity. ABI-3700 Sequencer was introduced at a spin off company Celera Genomics.

Managed the design, prototype and UL/CSA regulatory test of diagnostics and medical equipment. IGEN -Origin I, for use with chemiluminescence's tag technology
Designed and Managed project and personnel in microprocessor controlled, medical, environmental, nuclear power plant water safety systems, semiconductor and DOD.

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ACCOMPLISHMENTS

Audited, US Military Medical Research Commands their laboratory and IT infrastructure in the USA and in Thailand collected a set of universal FRS (functional requirements) and BRS (business requirements) used in the selection of CRM (Clinical Research Management) an electronic LIMS (Laboratory Information Management System).

Created HQ Command Medical Research regulatory data and resource awareness in the conduction of clinical laboratory work meeting GLP (good laboratory practice) and FDA guidance in the Army Command.

Led and conducted group and one-on-one CRM and LIMS electronic data collection and result reporting training of US Army Medical Research personnel in the US, and at AFRIMS in Thailand under a different set of conditions and cultural differences.

Managed the acquisition, configuration, and validation documentation of a LIMS for Immunology laboratories conducting Phase I, Phase II, and Phase III, clinical trials laboratory work and analysis. Led a group of IT and Network Engineers in the definition and redesign configuration of LIMS supporting infrastructure.

Automated HGSI High Throughput Assay and methods development increasing productivity, accuracy, and environmental safety to meet regulatory compliance.

Organized and developed process used in the identification acquisition and configuration of an automated tracking system and barcode technology for HGSI clinical trials data collection, sample archiving methodology and reporting processes for Phase I, and Phase II clinical study trial. Tests were conducted in animal and human subjects. Studies and their corresponding cohorts follow scheduled subject sample collection, sample preparation, and visit time points and iterative test.

During tenure at TIGR, I tested, characterized, and proposed change to optimize design of an Automated Hydrodynamic Process for a controlled, unbiased DNA shearing devise PtS "Point sink Shearer" developed at the Stanford DNA Sequencing and technology Center, in Palo Alto, CA. Proposed change incorporated an in line ruby orifice with pre-selected and variable OD permitting cloning efficiency of sheared DNA without end repair.

Conducted TIGR Sequencing Laboratories workflow and throughput analysis. Analysis led to evaluation of ABI 377 sequencers and development of new product (3700 sequencer) development meeting high throughput and sample capacity. ABI-3700 Sequencer was introduced at a spin off company Celera Genomics.

Evaluated research oligo-synthesis platform and technology. Managed TIGR's NIH funded, SAIC, ALEKTO Robotics platform, provided developer to laboratory personnel technical liaison, process specification, transfer of chemistries, automation workflows, and time sequence.

Managed projects, at Pacific Scientific-Hiac/Royco Div. In that role led engineering personnel in design of optical based life science and industrial sample sizing and counting instrumentation.

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Technologies introduced and used were hydraulics for structural hydraulic systems and airplane's hydraulic fluid testing.
Designed and was awarded a patent for a pressure vessel and closed valve system, with real-time measured flow rate, virgin Teflon and sapphire optical flow cell for use in the semiconductor industry, HF acid wafer etching processes. Designed environmental control clean room air and chemical industry particle counters and sizing equipment.

Managed and design, prototype of IGEN -Origin I, for use with chemiluminescence's tag technology. Incorporated sample microprocessor controlled, sample cell flow heating, and multiple carrousel point of test vortexing.

Managed and design UL/CSA regulatory test of diagnostics and medical equipment IV Infusion Pump, CS3000 Blood Separator, and Nephelometer.

Designed microprocessor controlled, medical, environmental nuclear power plant water safety systems, semiconductor and DOD, NAVSEA cable tester, Air Force on board test instrumentation and environmental, submarine temperature control system.