**Field Service Engineer - Linacs**

Seven years’ linac service experience in cancer centres. Hands-on skills in machine troubleshooting, repair, maintenance and QA. Three years’ postgraduate study in electronics and engineering. Expertise in networking and automatic process control. Willingness to work after-hours when emergency occurs.

**Highlights of QUALIFICATIONS**

* Handiness in Linacs, othovoltage, X-ray generators, CT (Varian, Elekta, Accuray, Siemens, Xtrahl)
* Expertise in contemporary operating systems and network applications
* Ability in high voltage, high ampere, high vacuum and high power microwave technology, electronic control systems, computers, robotics and microprocessor-based controllers
* Proficiency in mechanical systems, hydraulics and pneumatics, electronics assembly technologies
* Good attendance, organization and performance record.

**Work EXPERIENCE and Achievements**

**BioMedical Technician**  Apr 2015 – Current

Radio-Oncology, Central Hospital of University of Montreal - Notre Dame, Montreal, QC

* Responsible for 6 Clinacs (12 years old): troubleshooting, repair, maintenance and inspections
* Achieved zero down-time for 2015 financial year (with no service contract)
* Completed all Varian trainings: HEC101 and 102, TBM101 and 102, OBI, MLC, etc.
* Completed Accuray training: CyberKnife Legacy

**Electronics Technologist**  Mar 2013 – Sep 2014

Grand River Regional Cancer Centre, Kitchener, ON

* Responsible for machine morning check out, troubleshooting, repair, maintenance and inspections
* Maintained machines including Varian Truebeam, Clinac 21EX, Siemens Sensation Open CT scanner, and Xstrahl 150 X-ray generator
* Kept all machines well within specs and in clinically sound status for over 429 running days
* Independently chased root cause of and repaired 216 malfunctions and participated in all 33 PMIs and machine updates such as complicated and carefulness-driven gantry manifold installation

**Start-up Quality Assurance** Feb 2009 – Mar 2013

Sunnybrook Health Sciences Centre (Odette Cancer Centre), Toronto, ON

* Responsible for daily start-up and quality assurance on medical linear accelerators (Elekta Synergy, Siemens Primus and TomoTherapy Hi-Art) and related devices in accordance with department standards
* Provided technical expertise and advice to support fault/failure mode and effect critical analysis (FMECA) and preventive maintenance including reliability planning.
* Well kept test, malfunction and service records and trained new employees and students
* Reduced process duration by 19% and variance by 12% of Engineering Daily QA in less than 10 months which allowed more patients to be treated in a shorter time frame.

**Control and Automation Engineering Research Associate** Sep 2004 – May 2009

Laurentian University, Sudbury, ON Sudbury, ON

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* Implemented system automation, algorithm design, simulation, and data analysis using software.
* Identified causes limiting industrial semi-autogenous milling process throughput, provided solutions for improving profitability up to 10%

**Reliability/Quality Engineer** Aug 1998 – May 2003

ALCATEL LUCENT Shanghai BELL Co., Ltd., Shanghai, China

* Applied advanced imaging technologies in material characterization and diagnosis (scanning x-ray microscopy, scanning ultrasound microscopy, scanning electronics microscopy, etc)
* Solved high voltage protection and mechanical fragility problems by updating design of MCM pack
* Initiated Rx-Noise project. Results exceeded customer's expectations while within budget.

**Client Service Engineer,** **Process Developer** Apr 1996 – Jul 1998

SIM DAIMLER BENZ LAB in Electronics Assembly and Packaging, Shanghai, China

* Managed client service center for technical consulting to industries
* Developed Isothermal Solidification process in semiconductor packaging for harsh environment applications (patented)

**EDUCATION & PROFESSIONAL developments**

**Varian Trainings: TBM101 and 102, HEC101 and 102, OBI, MLC** 2015 - 2016

**Accuray Training: CyberKnife Legacy**  2015

**Accelerator Technology Education Course** 2013

Princess Margaret Cancer Centre, Toronto, Ontario, Canada

**Certified Quality Engineer** 2011

American Society of Quality, Toronto, Ontario, Canada

**Process Engineering**  2009

Laurentian University, Sudbury, Ontario, Canada

**M. Eng in Material Physics focused on Electronics** (Certified by Univ. of Toronto) 1992

Shanghai Institute of Metallurgy, Chinese Academy of Sciences, China

**B.Sc. in Solid State Physics** 1989

Jilin University, Changchun, Jilin, China

**ASSOCIATIONS**

* Surface Mount Technology Association (senior member)
* American Society of Quality (senior member)