

RESUME

VLADIMIR CHUTKO

101 Duranzo Aisle, Irvine, CA92606
Phone: (949)394-4466
Fax: (949)451-6813
chutko@cox.net
US citizen

SUMMARY OF EXPERIENCE:

Strong industrial and scientific experience in vacuum engineering and vacuum applications, optical coatings, ion beam devices and technologies, including:

- Vacuum systems design and manufacturing;
- Vacuum systems maintenance and repair;
- Tooling design, vacuum, and coating equipment design and upgrade, technological ion sources and DC magnetrons developing and design;
- PVD coatings technologies, including e-beam and resistive evaporation, DC magnetron sputtering technologies; ion beam sputtering, arc evaporation in general, quartz crystal and optical process monitoring;
- Ion beam technologies and equipment, including optical coatings ion beam assistance deposition, ion beam sputtered coatings, and ion beam figuring of precise optical surfaces;
- Familiar with End Hall, Kaufman, anode layer, saddlefield ion sources;
- Optical coatings design and coating process development (AR, BBAR, metal, dielectric and metal-dielectric mirrors, beamsplitters, cube beamsplitters, ND filters etc for UV, VIS and NIR ranges) ;
- Coating and QC department organization and management;
- Optical and architectural coatings mass production management;
- Coating equipment maintenance and repair, personnel training, consulting;
- Equipment Manuals, coating runs and QC SOPs creating;

Author of vacuum engineering software VacMaster 1.0, VacMaster 2.0, and VacCAD 1.0

Computer skills: TFCalc, Quick Field, SolidWorks and other general and special software.

About 40 publications, technical reports, and messages at the science-technical conferences in Russia, including 6 Russian and 3 USA patents. AVS and SVC member.

EMPLOYMENT

2013 – Oct. South Bay Technology, San Clemente, CA

2016 Product manager, Technical director. Ion beam sputtering/etching and plasma system development, manufacturing, production., and upgrade.

- Ion beam sputtering and etching systems with Kaufman and cold cathode ion sources;

- RF plasma cleaners and etchers;
- Customers technical support;
- Report directly to President.

2007 - 2013 Precision Glass & Optics, Santa Ana.

Thin Film Vacuum Coating Lab Manager.

- Coating quotes;
- Design thin film optical coatings and run sheets for production;
- Coatings quality control;
- Maintain and upgrade vacuum coating equipment;
- Special vacuum tooling design;
- Vacuum coating machines installation and start-up;
- Ion beam assisted deposition equipment and technology design and development;
- Schedule coating jobs;
- Develop new coatings and materials;
- Supervise Thin Film Coatings technicians;
- Any other operations or actions to be asked for,
- Report directly to President.

2004 – 2007 Self-employed

1998 – 2001 Reynard Corporation, San Clemente, CA.

Technical design engineer also fulfilled the duties of QC manager and operation manager.

- Managed optical vacuum coatings production;
- Organized and managed QC department;
- Wrote SOPs and manuals;
- Trained personnel;
- Developed and designed special tooling for coating vacuum chambers;
- Managed vacuum chambers maintenance and repair.
- Reported directly to President and CEO.

1972 – 1998 Occupied positions from engineer to head of coating department in a few Russian optical companies and Kurchatov's Research Centre. Duties and job areas: optical materials for power CO₂ lasers, ITO coating deposition technology development and invention in mass production, coating and optical QC departments development, organization and management, ion beam figuring technology and equipment development and invention in production, tooling design and development, technological ion sources and DC magnetrons design and development, special coating equipment design and development, regular optical coatings production, special electro-conductive transparent coatings for monitor screen filters mass production, architectural glass optical and decorative hard coatings mass production, and other regular for optical manufacturing duties.

EDUCATION

- 2001** Saddleback College, CA, USA. Course "Certificate in Project Management Principles".
- 1990** Institute of Fine Mechanics and Optics, Leningrad, USSR. Ph.D. in specialties of "Optical Devices" and "Technologies of Devices Fabrication". Thesis "Ion Beam Figuring of Big Dimensional Optical Components".
- 1974 - 1975** Certificate in the "Quantum Radio and Laser Techniques"; Institute of Radiotechnics, Electronics and Automatics, Moscow, USSR.
- 1965 - 1970** Institute of Steel and Alloys, Moscow, USSR. "Semiconductor Materials and Devices" department, specialty of "Semiconductors and Dielectrics", M.Sc., Engineer of electronic engineering.

More detailed information, references and list of selected publications available on request.