

Joseph Czapski (pronounced CHAP-skee), 781-904-4000 x211

Experience

2009 – present *Test Engineering Manager (2010-present), Principal Test Engineer (2009-2010),*
Aegis Lightwave, Woburn, Mass.

I manage Aegis Lightwave's Test Engineering group and am responsible for the design, construction, and maintenance of automated test stations for our unique wavelength-tunable optical products. My work includes LabVIEW programming, electronics analysis and troubleshooting, product engineering, and management of projects, budget, and staffing.

2008 – 2009 *Senior Project Engineer,* **Bloomy Controls**, Marlboro, Mass.

Developed automated test and control systems, LabVIEW software, and electronic circuits. Led teams of engineers and managed projects.

1997 – 2008 *Engineering Consultant, Owner,* **AutoMeasure**, Arlington, Mass.

Ran a consulting business with services including custom test and control systems development, LabVIEW programming, signal conditioning circuit design, and project management.

Long term, repeat clients:

InfraReDx, Burlington, Mass., 2004-2009

Naval Air Warfare Center, Patuxent River, Maryland, 2004-2009

RadioMedix, Houston, Texas, 2008-2009

MKS Instruments, Wilmington, Mass., 2006-2008

Sensicore, Ann Arbor, Mich., 2004-2006

Medica, Bedford, Mass., 2002-2005

Synta Pharmaceutical, Lexington, Mass., 2003-2004

Listen, Inc., Boston, Mass., 1997-2004

Delta-F, Woburn, Mass., 1998-2003

Photoelectron, Lexington, Mass., 1997-2000

1994 – 1997 *Senior Development Engineer,* **Loral Infrared and Imaging Systems**, Lexington, Mass.

Tested infrared detectors, mixed-signal CMOS read-out ICs, and focal plane arrays. Designed and constructed test systems consisting of infrared radiation sources and racks of programmable pulse generators and custom analog video acquisition circuits. Designed and implemented wafer probe cards and signal processing circuits. Diced, packaged, and wire bonded integrated circuits. Characterized analog CMOS microcircuits for linearity, noise, crosstalk, frequency response, photoresponse, and clock speed. Developed complex LabVIEW applications. Troubleshooted system noise and signal integrity.

1991 – 1994 *Scientist,* **Raytheon Research Division**, Lexington, Mass.

Same activity as Loral position described above.

Education

MS Electrical Engineering, Northeastern University. Research Assistantship award. Concentration: Semiconductor Devices and Integrated Circuits, including thesis.

BS Electrical Engineering, Rensselaer Polytechnic Institute.

Skills

- LabVIEW programming, 20 years. Certified LabVIEW Developer.
- System integration, especially using National Instruments data acquisition products.
- Project management and technical documentation.
- High-speed data acquisition (10 MHz) and related signal integrity issues.
- Remote instrument communications and control, including over the internet.
- Data analysis, display, storage, report printing, and instant web publishing.
- Custom websites whose content is modifiable using any web browser.
- Analog signal conditioning circuit board design and implementation.
- Neat chassis, connector, and cable design and construction.
- Low-noise measurements, low-noise system design, and system noise reduction.