**Mark E. Heiden**

**Nanofabrication Facility Manager**

**Positions Held:**

* 8/97-11/02   
  General Manager, Hi Q Engineering, Ontario, CA
* 8/92-7/97   
  Product Manager, MTI Technology Corp, Anaheim, CA
* 1/88-8/92   
  Special Projects Manager, Hi Q Engineering, Ontario, CA
* 8/82-1/88   
  Senior Production Manager, General Precision Ind., Irvine, CA
* 7/76-8/82   
  Technical Support Manager, Statek Corp., Orange, CA

**Research Interests:**

Nanoscale and MEMS device fabrication, Laboratory monitoring and management systems.

**Professional Experience:**

Over 25 years experience in all aspects of the quartz crystal device and MEMS sensor research and development, design/test and manufacturing including:

* Facilities design, construction and maintenance
* Photolithography
* Quality assurance and process control
* Equipment refurbish, design modification and maintenance
* Clean room design, construction and maintenance
* Process engineering/development
* Wafer grinding/polishing
* E-beam metallization
* Thermal metallization
* UV/Ozone cleaning
* Chemical etching
* Metrology

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