

Michael Fushille, Technician/Research Associate

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Professional Specialty: Design, assembly, operation, and data acquisition of vacuum deposition systems for the development of custom thin film devices for semiconductor applications.

Education: B.S. Geophysics, Univ. of Texas at El Paso, minors in Math, Physics & Geology - 1985

Special courses: Techniques in Marine Geology, Farleigh Dickinson University, St. Croix, US VI

2004-current: Hi-Z Technology Inc., San Diego, CA Chief Technician/ Research Associate.

Responsibilities included setting up magnetron-plasma vacuum systems for the deposition of thin film, semi-conductor materials, using various substrates (silicon, glass, Kapton, sapphire) to develop advanced thermoelectric devices, implementing a broad range of vacuum environmental conditions. Various power supplies were used during the deposition process, including DC, Pulse DC, and RF. Responsibilities also included all the maintenance of the vacuum systems, analysis of the finished samples, as well as testing and logging the electrical properties (resistivity, Seebeck) from every run.

1999-2003 SolarFlex Technologies Inc., San Diego, CA Chief Technician/ Research Associate.

Worked on a project to develop a thin film, flexible solar cell on plastic, using magnetron-plasma deposition of the semi-conductors. Responsibilities included maintaining the clean room, installation and maintenance of the deposition hardware, performing all of the vacuum depositions, data collection from the finished cells, and maintenance of detailed logs, notebooks and database files concerning the cell data and machinery parameters during deposition.

References available upon request