

Hydro Designs inc.

IRRIGATION ▾ PUMPING SYSTEMS ▾ AUTOMATIC CONTROLS

Michael J. Krones, Ph.D.
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1. Academic Degrees

- Ph.D. University of Maryland, College Park, Department of Agricultural Engineering. 1989.
Dissertation Title: Anaerobic Acidogenesis of Dairy Manure.
- M.S. University of Maryland, College Park, Department of Agricultural Engineering. 1986.
Thesis Title: A Control System for the Irradiance and the Spectral Distribution of
Fluorescent Light in Plant Growth Chambers.
- B.A. Tufts University, Medford, Massachusetts. 1976. Chemistry.

2. Professional Experience

1995-Present President, Hydro Designs, Inc., Frederick, MD

The firm has four employees (including Dr. Krones). In addition to management of the business, responsibilities include providing engineering design consultant services in water related fields such as irrigation design for large commercial landscapes, athletic facilities, golf courses, dust control, and wastewater disposal. Additional services include design of pumping and automatic control systems, water treatment systems for natural habitat, and consultation in the development and maintenance of synthetic and natural aquatic environments.

1989-1995 Self-employed irrigation consultant, Ijamsville, MD

In addition to the consulting services described above, Dr. Krones serviced and repaired automatic control systems associated with pumping and irrigation controls.

1989-1991 Faculty Research Associate, Department of Agricultural Engineering,
University of Maryland, College Park

This appointment entailed designing, implementing, and monitoring a commercial scale, closed cycle, indoor trout production facility. The closed cycle feature of this installation required innovative water treatment techniques that maintained the water quality at the high standards required for trout growth.

1989 Instructor of engineering mechanics at Montgomery College, Rockville,
MD

1984-1986 Research assistant at the Smithsonian Environmental Research Center,
Rockville, MD

3. Professional Affiliation and Accreditation

American Society of Civil Engineers
American Society of Irrigation Consultants
Irrigation Association Designer Certification, Golf and Commercial
U.S. Green Building Council LEED AP (BD&C)



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