

Timothy S. Pond
44 Brewster St
North Andover, MA 01845
(508) 768-5747 pondsi@verizon.net

SUMMARY: Chemical engineer with over 20 years of experience in designing, manufacturing and commissioning of water and waste water systems. Responsibilities have included engineering management, process engineering, product development and project management for leading water treatment manufacturing companies and multi-discipline engineering firms. System experience includes the industrial/power, pharmaceutical, semiconductor, food and beverage and potable water markets.

EXPERIENCE:

10/17 – present **XYLECO Inc., Wakefield, MA** a startup biotech company employing new technologies to produce commercially valuable products such as xylitol, lactic acid, ethanol and specialty sugars. Position: **Project Manager for Water and Wastewater**

- **Responsibilities and accomplishments:** Research and pilot test various waste water treatment technologies to determine the best technology for treating the waste water. Work includes designing and developing the Piping and Instrumentation Diagrams (P&ID's) for the waste water treatment and deionized (DI) water systems required for a new manufacturing facility starting up in Moses Lake, WA. Project engineering and management work includes acquiring required permits, specifying all major components and working with procurement, managing vendors and subcontractors, installing and starting up equipment and training plant personnel.

9/16 – 7/17 **EVOQUA Water Technologies, Lowell, MA** a leading company specializing in the design, manufacture and service of water and waste water systems for municipalities and industrial markets. Position: **Application Engineer**

- **Responsibilities and accomplishments:** Design and engineering work included developing the P&ID's, setting the project budget, producing the bill of materials and writing the sales proposals for the micro-electronics and semiconductor markets. Recently prepared the proposals and sold several ultrapure water systems with revenues totaling over \$12 million in capital equipment and margins exceeding 35%.

12/14 – 7/16 **SUEZ – North America – Ozonia, Leonia, NJ** a leading company specializing in the design, manufacture and service of ozone and ultra violet (UV) water and waste water systems for municipalities and industrial markets. Position: **Project Manager**

- **Responsibilities and accomplishments:** Design and project engineering work included developing the P&ID's and mechanical assembly drawings for a new "state of the art" ozone generator and injection system. Project management work included working w/ sales and applications to deliver the bid package, managing the project budget and schedule, specifying all major components, managing subcontractors, and meeting with the customer. Projects included the \$1.7 million Cary, NC Water Treatment

Expansion. The equipment was delivered on schedule to a happy customer with the initial 15% profit margin increased by 8%.

12/09 – 12/14 **POND Water Technologies, Boston area, MA** - providing consulting and contract project management services in the water and waste water industries. Position: **Principal and Sr. Consultant**

- **Projects:** Troubleshooting a \$3 million waste water reclaim system for MEMC's new solar wafer fabrication facility in Malaysia. Work included writing a specification for a replacement reclaim system and designing a system to improve the existing system's performance. Other consulting water and waste water contracts were with Vitasoy USA, Acton, MA and The Dow Chemical Company – Filtration Group, Midland, MI.

1/08 – 12/09 **CHRIST Water Technologies – America New Britain, CT.** A company specializing in the design, manufacture and service of high purity water systems for the pharmaceutical and industrial/power industries. Position: **Sr Project Manager**

- **Responsibilities and accomplishments:** Design and project engineering work included developing the P&ID's and mechanical assembly drawings for 1.0 Million gallons per day (MGD) (equals 700 GPM) pure water system for a Bechtel power plant located at the Prairie State Energy Campus in Marissa, IL. Project team consisted of mechanical designers, a sr. electrical engineer, electrical designer, controls programmer, purchasing agent and the shop manager. Engineering also included specifying and ordering all major components and supporting fabrication personnel. Project management work included working w/ sales and applications to deliver the bid package, managing the project budget and schedule, managing subcontractors, meeting w/ the customer and customer's quality assurance representative. The \$3.6 M project was shipped on schedule and an aggressive 28% profit margin was exceeded.

10/03 – 9/07 **KOCH Membrane Systems, Wilmington, MA.** A leading water purification company supplying water and waste water treatment systems. Position: **Project Manager and Product Development Manager**

- **Responsibilities and accomplishments:** Lead engineer providing process engineering, design, sales and R&D support for the development of the world's first commercial 18" reverse osmosis (RO) membrane system. Process work included developing the P&ID's for custom RO systems and designing the Puron MBR pilot program. Project management work included the design and fabrication of 6 brackish water RO systems incorporating the 18" membrane. Projects included the 10 MGD reclaimed water Bundamba plants in Queensland, Australia. Project value was \$5.2 million. The project was shipped on time and project margin exceeded initial budget estimates. The Queensland Water District followed the initial project with another 7 MGD expansion order in 2008 valued at \$4.3 million.

11/99 – 9/03 **IONICS Incorporated Watertown, MA.** A leading water purification company engaged worldwide in the supply of water and water treatment systems. Positions: **Process Manager** 9/2002 –9/2003

Project Manager - promoted from Sr. Project Engineer 4/2000

- Process management work included: Providing process engineering support for the larger and more complex “BOOT” Build, Own, Operate and Transfer contracts. Projects included a 110 MGD ultra filtration (UF)/RO plant in Sulaibiya, Kuwait valued at \$65 million.
- Project management work included: (10 direct reports consisting of mechanical and electrical project engineers) The design, fabrication and startup of Seawater RO (SWRO) system w/ Energy recovery (E/R). Projects included the 8 MGD expansion of an existing BOOT - SWRO w/ E/R plant on the island of Curacao. Project value was \$5.8 million.

2/98 – 9/99 **ADP Marshall (a subsidiary of Fluor Daniel Inc.)** Williston, VT. A multi-discipline engineering and construction firm focused in the microelectronics field.
Position: **Sr. Process Engineer/ Project Manager**

- Process engineering and project management work included: Provided design, engineering and consulting services for the ultrapure water (UPW) systems (ambient and hot) incorporated at IBM's Essex Junction microelectronics facility. Work included new fab construction as well as upgrading existing /operating UPW systems. Other work included designing, installing and starting up high purity gas and chemical delivery systems to the fabs.

7/95 - 1/98 **IDC- Industrial Design Corp. (a subsidiary of CH2M HILL)** Portland, OR. A multi-discipline engineering and construction firm focused in the microelectronics field. Position: **Sr. Project/Lead Engineer** - Provided design, engineering and consulting services for the chemical/process and UPW systems incorporated at Intel's Hillsboro semiconductor facilities.

The DOW Chemical Company, Separation Systems R&D Larkin Lab., Midland, MI.
Manufacturer of Filmtec membranes and Dowex ion exchange. Position: **Project Leader**
promoted from Sr. research engineer - 1/93

- Engineering research and project management work included: Design and development of new cross-flow membrane applications for industrial waste waters and the food and beverage market. Project work included market and economic assessments followed by pilot system testing.

RELIABLE Water Company, Inc., Boston, MA. Startup company that manufactured SWRO systems for the potable water industry. The SWRO systems employed newly developed energy recovery (E/R) systems. Position: **Engineering Manager/Project manager.**

- Engineering and project management work included: Design, fabrication and startup of five SWRO w/ E/R systems throughout the Caribbean Islands including the Cayman Islands and BVI. Direct experience in developing new E/R products for patent applications.

NORTON Company, Worcester, MA Manufacturer of ceramic cross-flow micro filtration (MF) membranes for chemical, nuclear and food and beverage industries. Position: **Project Manager**

VAPONICS, Inc., Plymouth, MA Manufacturer of ultra-pure water systems for the power, pharmaceutical and semi-conductor industries. Position: **Project Design Engineer**

EDUCATION: **WORCESTER POLYTECHNIC INSTITUTE, Worcester, MA**
Program in Chemical Engineering
B.S. in Chemical Engineering with a concentration in Management
Passed the first of two test required for Professional Engineering (PE) License
Passed first of two tests required for Professional Engineering license (PE).