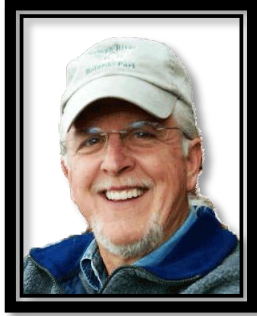


## Holmes AutoPilot LLC was founded in 1979 by Bill Holmes, P.E.



Bill may have been the first Energy Professional to recognize the opportunity and begin to use actual monitored data to reduce energy costs in all types of buildings. He has been called the “Father of Energy Monitoring” and his work has been recognized by leaders in industry, education and engineering as being “30 years ahead of the rest of the field”.

With a Bachelor’s and Master’s in Mechanical Engineering, Bill gained his experience with instrumentation, real-time monitoring, fault detection and systems optimization in the Air Force. As a flight test engineer for 3-1/2 years, he worked on developing instrumentation and analyzing data transmitted to a ground station from fighters flying over a Gulf of Mexico Test Range. He then spent 2 years as a part of the team that designed and tested the first Air Force advanced on-board monitoring system, the “On-Condition Maintenance System”, on the new F-15.

When Bill returned to civilian life, he started an Energy Conservation Department for a consulting engineering firm. He soon discovered that the only information available on energy costs in most buildings was the utility bills. The need for instrumentation and an information system in buildings similar to those in airplanes was obvious.

In 1979 Bill founded Holmes AutoPilot and began contracting with facilities to optimize the operating and maintenance costs of their energy systems. Using his engineering and instrumentation background, he developed and installed the “PC-based” iDOS System in his first project, a Hospital. The annual energy costs were reduced by 59% through changes in operation, maintenance and control only. No capital projects were required!

AutoPilot soon had full-time engineers, technicians, a software developer and a panel shop. Each system was custom designed and installed on turnkey basis. They did it all,

wrote the software, designed, furnished and installed the hardware, trained and supported the designated people in each facility. Methods were developed to create and verify immediate savings, sometimes the first day.

The iDOS System was initially designed and remains generic. Any desired data that can be measured with any sensor can be input to the database. Analytics, custom screens and reports can be developed as required.

The first “Cloud-based” iDOS System was installed in 2008. That opened the entire US to AutoPilot. The Indiana office was closed and relationships established with alliance partners as needed. The iDOS hardware now includes a secure communications hub developed in Sweden and now sold in the US. A PLC is used for data collection and transmission. Since 2017, the iDOS System has incorporated the latest Google Cloud tools into its software. No other company can exceed iDOS’s technology or performance.

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**Bill Holmes - [bill@holmesautopilot.com](mailto:bill@holmesautopilot.com)**

Bill has been a practicing Engineer, Mechanical Systems Designer, Purdue Professor and Energy Engineer Responsible for Energy Conservation, System Operation, Control and Maintenance 24/7 in multiple facilities.

He has been a regular contributor to Sustainable Plant Journal and the “Bill Holmes-on-Energy Blog” for Plant Services. Bill has written more than 100 articles and published papers in numerous energy publications, lectured around the country and has written and presented Webinars on monitoring, system and total plant optimization.

He holds a BS and MS in mechanical engineering and has taken additional coursework toward his PhD with his research focused on “Using Instrumentation to Allow Industrial Plants to Manage Energy Costs Like All Other Costs.” Bill was a Charter Member of the Association of Energy Engineers (AEE) and one of the first Certified Energy Managers (CEM). He became a Registered Professional Engineer in Ohio and Indiana in 1974.