



## DRIVEN-4 LiveWorx Product Demonstrations

PTC's LiveWorx 2023 in Boston was a great event! It was a long time coming to be able to spend time with current customers, potential new customers, PTC representatives and discuss transforming companies by expanding their digital transformation journey. Conversations concentrated on developing the Digital Transformation by further expansion in the product lifecycle journey, as well as, incorporating Internet of Things (IoT) technology within organization's facilities and products. During the show, we concentrated on showcasing some great work we've accomplished with our customers in terms of:

- ◆ Delivering improved Indoor Air Quality via IoT
- ◆ Using IoT to Level the Playing Field in Baseball

### Delivering improved Indoor Air Quality via IoT

Fresh, clean air is essential to life. Having good indoor air quality contributes to a better quality of life. But we create poor indoor air, every day, by going about our lives. We create carbon dioxide by cooking and breathing, adding excess moisture when we bathe, adding VOC's to the air by painting cabinets and using household cleaners. Broan's Overture™ system, a fully automated fresh air system, uses sophisticated sensor technology to monitor a home's indoor air quality and provide insights on the current outdoor air quality. When it detects a rise in indoor air pollution caused by increased humidity, VOCs (Volatile Organic Compounds), smoke, carbon dioxide and small particles (sometimes referred to as PM2.5), the system automatically turns on the nearest ventilation fan to eliminate the pollutant while simultaneously bringing in fresh, clean air from outside.

### Using IoT to Level the Playing Field in Baseball

Development of a repeatable, consistent and certified process for mudding baseballs is a key goal to major league baseball. How can we accomplish this? The elements to make this solution a reality involved the implementation and integration of automating the process of applying this Magic Mud to the baseball by utilizing digitally controlled spray guns, certifying that each baseball going through the process meets the standard for the finished baseball by incorporating digital imaging, artificial intelligence for millisecond comparison. Then utilizing automated controls and IoT Technology for gathering, certifying and providing certification artifacts to baseball teams and organizations.

We also introduced our own connected hardware solution the **DRIVEN-4 Connect System** for product integrations, SCADA/ICS, and IoT/IIoT.

The DRIVEN-4 Connect Module provides customizable I/O connections to enable your systems to connect to networks through wireless, Bluetooth, and LTE Cellular. The I/O availability includes analog and digital inputs, analog (PWM) and digital outputs, as well as ports supporting communication protocols such as 232, 485, I2C, and SPI. The module has been designed with power optimization being a critical requirement. It can be operated from a 3.7v Lipo battery input, or with 4.5v – 24v DC input. Onboard is a charging circuit for use with the battery that takes the same input range and is also designed to be powered by a solar panel.

The DRIVEN-4 Connect System also provides a user portal for monitoring the devices, as well as being a place to analyze data from those devices. In addition, the ability to do Over the Air (OTA) firmware updates is available.

The individual boards can be purchased as well a development kits – which include libraries and configuration utilities, and development kit packages with integration time included so you can get the assistance of our engineers to integrate the system into your custom solution.

See here for more information: <https://driven-4.com/driven-4-connect-system>

**Join our Webinar on Monday July 10th at 11:30 AM EST to learn more!**

**RSVP**

**Next Month: Rationalizing the Value of Product Lifecycle Management (PLM)**