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Latest Construction Technology

New wearable system monitors construction workers' body temperature

A new system from health monitoring firm Kenzen can help employees keep cool this summer when working outside. The company claims the Kenzen Patch, a black arm band that goes around the bicep and has a related mobile app, continuously monitors a worker's body temperature to help avoid heat-related illnesses.

The patch, according to Kenzen Chief Commercial Officer Heidi Lehmann, allows safety supervisors to see real-time metrics, allowing them to respond to a potential health threat before a worker becomes ill.

Companies also can view anonymized data sets to identify changes that would help mitigate future issues caused by heat, such as increasing break times or more water stations. The patch is in limited release, but contractors can test the product now because it is available for sale in the fall.

Procore releases job board for contractors and workers

Construction management software provider Procore has announced the launch of the Construction Career Board, a construction-focused resource for recruiting and job finding.

The new platform will allow contractors to post job opportunities for free, and allow those looking for new positions to upload resumes and search jobs. Positions range from accounting and marketing to electricians and carpenters.

Procore clients will have access to exclusive live sessions informing contractors of best hiring practices.

Hard hat device facilitates social distancing, contact tracing

WakeCap hard-hat devices track the location of workers in order to improve efficiency and safety, but construction managers realized the wearable system might be able to help them recreate the affected worker's interactions with others which is critical for COVID-19 tracing.

Launched in 2017, WakeCap is a resident of the Autodesk Technology Center in San Francisco. The WakeCap system consists of a lightweight device that attaches to a hard hat and a collection of wall-mounted, battery-operated "anchors" that create a wireless network on a jobsite that is viewable through a customizable dashboard.

In addition to identifying workers and subs who might be at risk, the system can also:
• Identify which work areas are affected and need to be disinfected.

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- Identify which disciplines are affected and will need to be supplemented in order to ensure work continuity.
- Ensure quarantined workers do not enter the project site unless cleared by a safety official.
- Ensure densely populated areas never have more people than specified.
- Provide compliance lists to governments and regulatory bodies requiring contact tracing reports.

SmartTrack

Project tracking software provider StructionSite has launched SmartTrack, an automated production tracking tool that applies artificial intelligence and photo recognition to imagery captured during site documentation to quantify the materials installed and the rate at which work is completed. SmartTrack makes tracking the installation of visible scopes-of-work an organized and seamless process, the company says.

StructionSite's first version of this product is geared toward drywall and framing trade partners, with SmartTrack for general contractors coming this fall. The company says the platform provides critical data to construction project teams on the installation rate of completion for drywall and framing, using the visual data from site documentation already captured on the jobsite.

GigapixelCam X2

EarthCam says its new GigapixelCam X2 robotic camera for jobsite monitoring, live streaming visualization and continuous security recording creates highly detailed 360-degree five gigapixel multilayered panoramas. The 4K live video can be streamed to multiple platforms, along with unlimited video clips that can be shared on demand. Up to 120 days can be continuously archived with the Edge Video Recorder featuring intelligent monitoring and motion detection alerts.

The high-quality still and video output from the GigapixelCam X2 also lends itself to a myriad of artificial intelligence (AI) analytic applications that are already being used; for example, to track jobsite activity, worker safety or to flag environmentally unfriendly waste in dumpsters, the firm says. The camera is mounted on an ultra-precise pan/tilt/zoom base and integrates with leading building information modeling (BIM) software programs.