



WEBINARS

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Embedded Vision Application Development for Everyone

Tuesday, May 31, 2022 11:00 AM - 12:00 PM EDT

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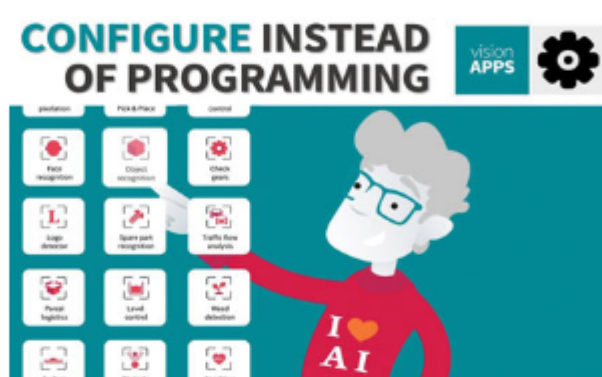
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.: About This Webinar

Vision application development is a demanding discipline that requires knowledge of image processing techniques, as well as programming skill and an extensive knowledge of software development tools. Developing on an embedded system proves to be a further challenge to this skill set due to the platform's focus on efficiency (computes per watt) and the need to learn how a particular edge device interfaces with other systems within the solution.

As artificial intelligence (AI) and machine learning are used to innovate the approach to vision-based solutions, so too must manufacturers of embedded vision systems innovate the development tool set they provide to users. AI vision and machine learning work in an entirely different way from rules-based image processing. The quality of a result is no longer the product of manually developed program code but instead it is determined by a training process with suitable image data, meaning the core skills necessary for classic image processing are no longer required. IDS is embracing this shift with the IDS NXT embedded vision platform.



The IDS NXT embedded vision platform is fully customizable, allowing a broad set of user groups to intuitively design their own applications. A fully automated application configurator, a vision app construction kit with an accessible visual interface, and a classic software development kit (SDK) providing a code-based programming approach ensure users of all expertise levels can excel at creating and improving their solutions. This tool is accessible for every knowledge level. The platform helps save time and cost for commissioning and setting up individual image processing applications with AI. Kevin McCabe will demonstrate how every user can design bespoke embedded vision applications with AI and run them on an IDS NXT edge device. Equipped with the right tools, embedded vision development has never been easier or faster.

Who should attend:

Those developing embedded vision applications and looking to utilize and customize artificial intelligence (AI) and machine learning. Engineers and researchers who are working with cameras, sensors, imaging, and test and measurement used in industries such as aerospace, agriculture, automotive, medicine, and semiconductors.

About the presenter:

Kevin McCabe is a senior applications engineer at IDS Imaging Development Systems Inc. He joined IDS Imaging in 2012 as an applications engineer, and he is responsible for technical inquiries across North America. McCabe currently focuses on helping other engineers integrate IDS 2D, Ensenso 3D, and NXT AI Inference cameras. He also provides in-depth product training to customers, distributors, and resellers to ensure a quick time to market. Throughout McCabe's nine years at the company, he has helped integrate IDS cameras into applications such as bin picking, palletizing/depalletizing, logistics automation, quality assurance, and ITS. He holds Bachelor of Science and Master of Science degrees in electrical engineering from the University of Massachusetts Lowell.

About the IDS Imaging Inc.:

IDS Imaging Inc. is a leading machine vision camera manufacturer. With the NXT camera line, the company has created a compact embedded vision platform for industrial applications. The philosophy behind the platform marks a paradigm shift: IDS' goal is no longer to just provide an image source, but to offer easy-to-use yet flexible systems for implementing all of the steps of a vision solution. These steps range from image acquisition and image analysis and processing to the control of industrial production machines.

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