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Author: tariq.ahmad  
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**Attendees**

- Total Confirmed Attendees: 369
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**Machine Vision with the Kria KR260 Robotics Starter Kit** Watch On-Demand

**When**  
18 May 2023 11:00 AM to 12:00 PM Central Time (US & Canada)

**Where**  
On24

**Event Type**  
Webinar (On24)

With the Kria KR260 Robotics Starter Kit and the Kria Robotics Stack (KRS), users can easily build a complete robotics system using a ROS 2-based environment with low-latency, deterministic communication connecting production-ready Kria SOM to Kria SOM. In the process, creating an adaptive system that can readily implement evolving and diverse algorithms as well as scale across multiple projects.



In this webinar Karan Kantharia from AMD will provide an introduction to the Kria KR260 Robotics Starter Kit and how it can be used to hardware accelerate your ROS 2 and machine vision designs. **We will be giving away 3 Kria KR260 Robotics Starter Kits with a Sony IMX547 Camera Kit and 3D Printed Kria Stands (~\$1000 Value) to the 3 attendees that ask the best questions!**

**What you will learn by attending:**

- Key technologies driving the future of robotics
- Overview of the KR260 starter kit hardware
- Ubuntu 22.04-ready apps available for out-of-the-box robotic system creation
- How KRS makes ROS 2 (Humble edition) development simple and productive
- Benchmarking against popular robotic development platforms
- Capabilities for additional industrial connectivity like SLVS-EC, 10 GigE Vision, and Time Sensitive Networking

Find out how Kria SOM-based hardware and app can allow you to easily develop production-ready, high-performance and adaptive vision-guided, AI-enabled, 5G wireless robotic and other systems.



**The Kit:**



SK-KR260-G ROBOTICS STARTER KIT

Buy Now

The Kria KR260 Robotics Starter Kit is a Kria SOM-based development platform for robotics and factory automation applications. It enables roboticists and industrial developers without FPGA expertise to develop hardware accelerated applications for robotics, machine vision, and industrial communication & control. Developers benefit with greater flexibility from native ROS 2 and Ubuntu support along with increased productivity through the Kria Robotics Stack (KRS). The pre-built interfaces and accelerated applications make the KR260 an ideal platform to accelerate robotics innovation and take those ideas to volume production deployment with commercial- and industrial-grade Kria K26 SOMs.



Sony IMX547 Camera Kit Color

Buy Now

The Sony IMX547 Camera Kit is available in color or monochrome for the Kria KR260 Robotics Starter Kit, compatible with the 10GigE Vision Camera App. Based on the Sony Pregius S IMX547 5MP sensor, the kit interfaces to the KR260, leveraging FRAMOS SLVS-EC Rx IP and enabling users to develop their own high-performance, high-speed, and high-resolution machine vision applications.

**Attend and Learn to Earn a Certificate:**

Following this presentation there will be a short quiz to test your knowledge. Complete the quiz and watch the presentation either live or On Demand to earn a certificate.

Read here on more information about how to get your certificate: [/members-area/support/w/site-faq/27798/how-do-i-earn-a-certificate-for-viewing-a-webinar-or-webcast](#)

**To Earn a Certificate:**

- View at least 30 minutes of the presentation
- Score a 100% on the quiz

**The Presenter:**

**Karan Kantharia, Product Marketing Manager at AMD**

Karan joined the AMD in July 2019 after graduating with a master's degree in Computer Engineering from Arizona State University, Tempe, USA. He leads product management & marketing of Kria SOMs, a brand-new portfolio of Edge AI products that were built from the ground-up during his time at the company. Karan's responsibilities range from defining product requirements, overseeing HW/SW development to planning product launches for new embedded platforms. He has been instrumental in creating go-to-market strategies for NPI products, enabling several customers and partners across the globe. Karan recently completed a graduate certificate program in Technology & Engineering management from Stanford University.

[Kria KR260 Giveaway - Terms & Conditions](#)

- kria
- robotics
- machine vision
- ROS
- kv260
- amd
- recording\_available
- programmable logic

tahmad78 0 comments 2 members are here

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**Top Comments**

- Aunullah** over 2 years ago +2  
The powerful integrated HEVC codec support is amazing but would have loved the support of AV1 codecs as well. I wonder what led to the choice of HEVC only?
- saadtiwana\_int** over 2 years ago in reply to emil.m +1  
Have you looked at Vitis-AI? AMD Xilinx actually provides several sizes of "DPU" that you can use to run AI loads, including image/video based tasks. In general, you can recompile your model using VITIS...
- Aunullah** over 2 years ago  
The powerful integrated HEVC codec support is amazing but would have loved the support of AV1 codecs as well. I wonder what led to the choice of HEVC only?
- kasualsteel** over 2 years ago  
Waiting for this to be the entry level STEM for schools!
- embeddedguy** over 2 years ago  
How does Kria compare to Beaglebone Blue? cause both are Ubuntu and ROS supported but Beaglebone has wireless connectivity + eMMC + IMU and other sensors. It has many connectors as well?
- meinsen** over 2 years ago in reply to embeddedguy  
there are many differences, you named some. one of many aspects: <https://beagleboard.org/blue> is a small, quite portable device (has imu), The SK-KR260-G ROBOTICS STARTER KIT is way bigger, has a quite big fan/cooling (more heat needs more power needs bigger battery/power supply) and the carrier board has wired network interfaces (not really portable -> the use cases are different from this perspective. Related to that the computing power is very different. Best would be to read & compare the manuals.
- sunnyblueskies32** over 2 years ago  
is there any availability of this in AUS friendly time?
- vcmanjunath** over 2 years ago in reply to sunnyblueskies32  
No mate. You can view recording and presentation material.
- emil.m** over 2 years ago  
Hello, I'd like to know about the options to perform neural network inference on K26. Are there any FPGA-based solutions or recommended add-on boards to accelerate convolutional neural networks for embedded computer vision projects on KR260/KV260? Thank you.
- saadtiwana\_int** over 2 years ago in reply to emil.m  
Have you looked at Vitis-AI? AMD Xilinx actually provides several sizes of "DPU" that you can use to run AI loads, including image/video based tasks. In general, you can recompile your model using VITIS-AI and then run it on the DPU. To be clear, the DPU is instantiated inside the FPGA fabric so it is a very much "FPGA-based solution"  
Pls read up on VITIS-AI for further information.
- meinsen** over 2 years ago in reply to emil.m  
the k26 isn't a general purpose accelerator for convolutional neural network training and inference. it has limits, some things can be done, others won't fit. have a look e.g. at <https://www.mdpi.com/2078-2489/14/3/194>. the options you have largely depend on the use case and it's requirements. as this is a development device you'll have to dig into it's specs and tools and documentation allowing you to choose the options it depends.

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