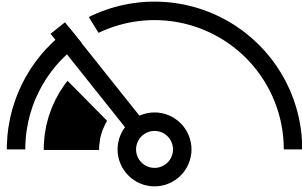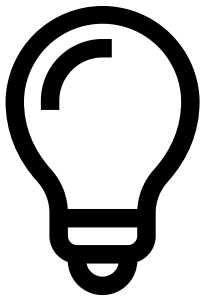# Vitis+PetaLinux 2022.1 & KRS 1.0 Install on Ubuntu 22.04
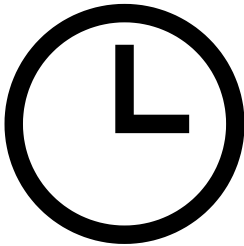
This project walks through the installation of Vitis and PetaLinux 2022.1 as well as KRS 1.0 on Ubuntu 22.04 Jammy Jellyfish.
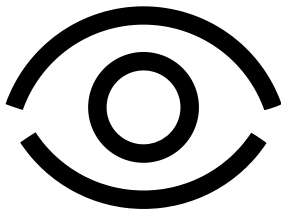
Intermediate

Protip

4 hours
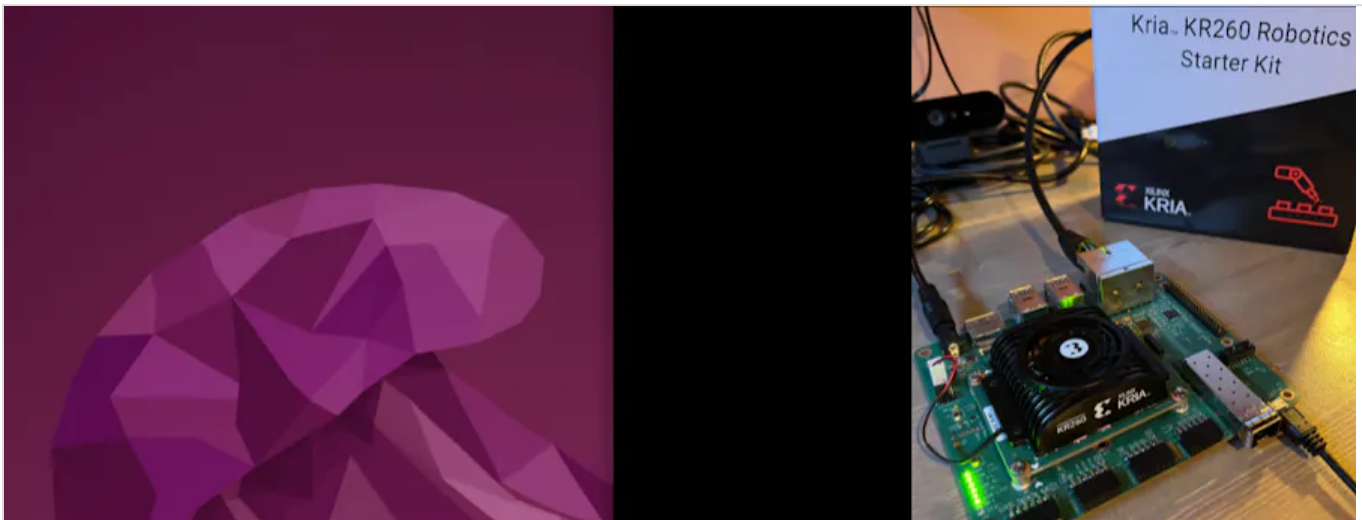
7,634

Things used in this project

Hardware components

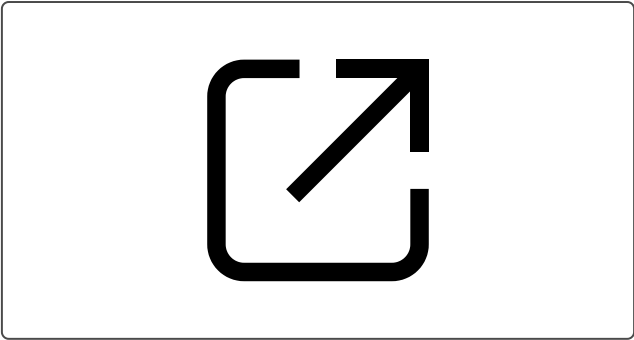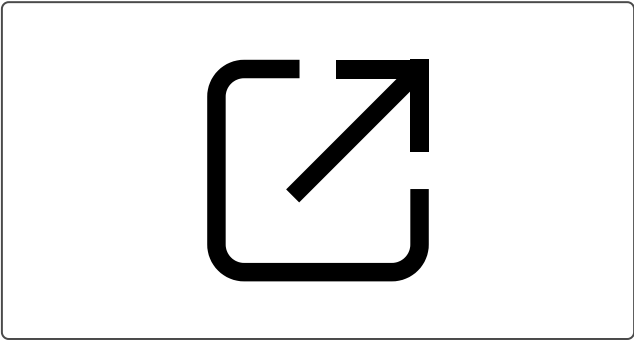|			
	[AMD Kria KV260 Vision AI Starter Kit](#)	× 1	
	[AMD Kria KR260 Robotics Starter Kit](#)	× 1	

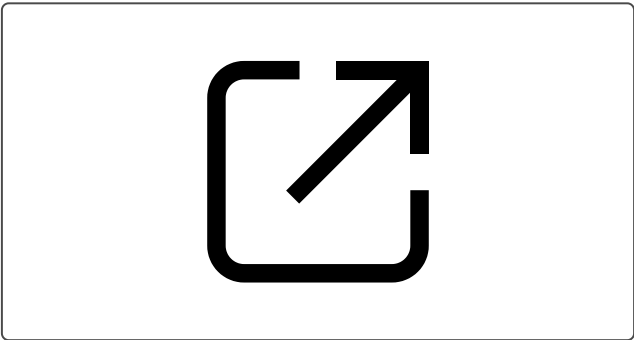## Software apps and online services

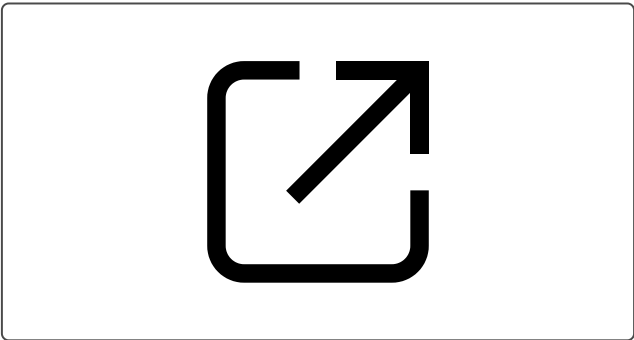[AMD Vitis Unified Software Platform](#)

[AMD PetaLinux](#)

AMD Xilinx Kria Robotics Stack (KRS)

[Snappy Ubuntu Core](#)

[ROS Robot Operating System](#)

Story

My Kria KR260 recently arrived in the mail which means it's time to install the latest version of Vivado, Vitis, and PetaLinux since the KR260's support starts with v2022.1. Along with this, the official Ubuntu distribution from Canonical released for the KR260 is currently 22.04 LTS, and since the Kria Robotics (KRS) workflow requires the cross compilation of an Ubuntu 22.04 image to run on the ARM-core of the Kria's MPSoC, I decided to buy a new external hard drive and create a new Ubuntu 22.04 virtual machine for my host environment.

I've covered before how I create my VMs on external hard drives (here) when I last created my Ubuntu 20.04 VM. The entire process is the exact same for Ubuntu 22.04 so I won't write that out again. I'll just pick up with the prep of the Ubuntu 22.04 environment and installation of system dependencies required for the v2022.1 Xilinx tools.

System Dependencies

Start by enabling the 32-bit architecture in the system, and set the shell to bash (by

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