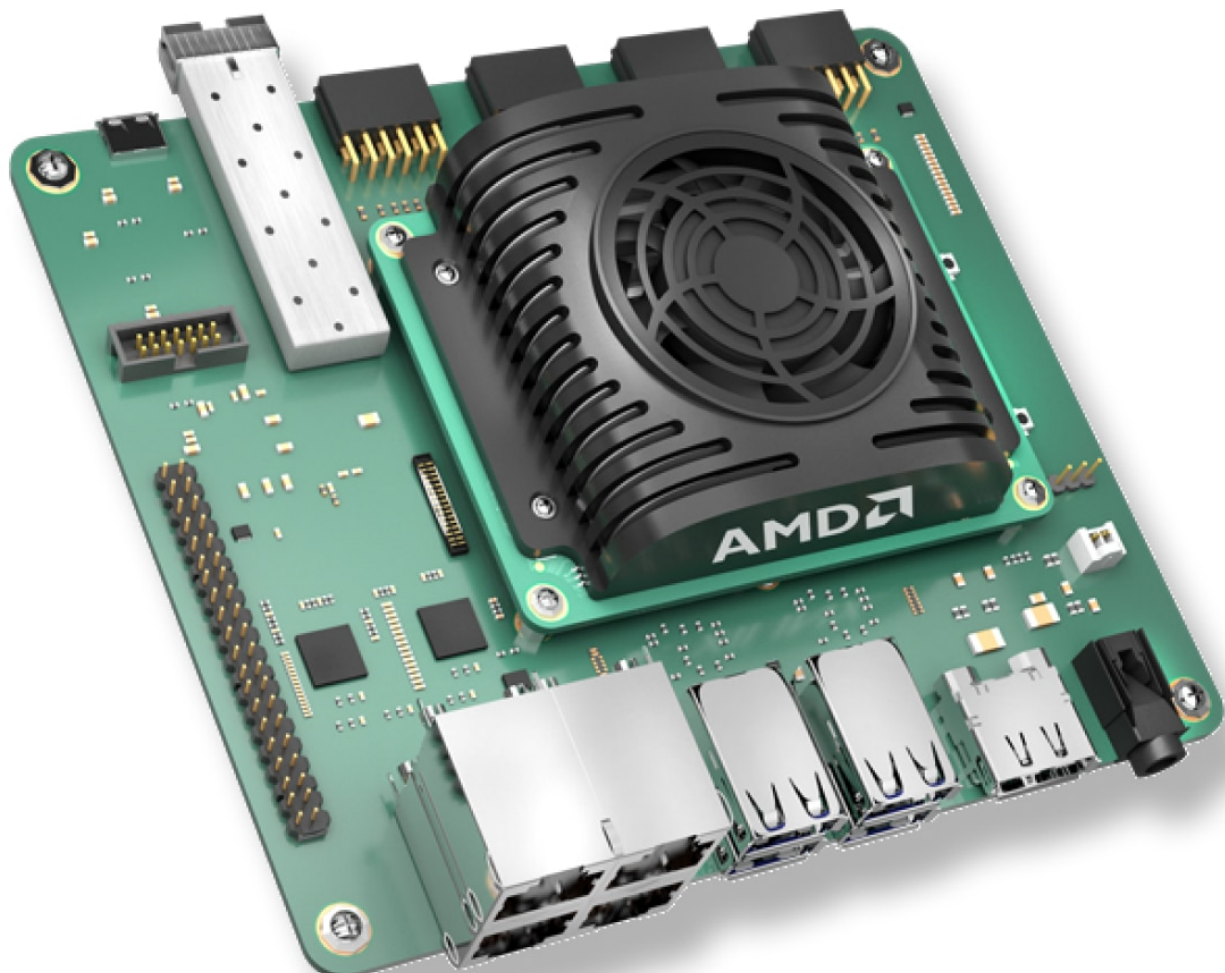


UMD Driverless Pipeline

- Camera based
- Rough Overview:
 - Detect cones and distances
 - fuse cones and car position with slam into a map
 - calculate a path
 - calculate hardware commands to follow path
- Will run on [Kria Development board](#)
 - Heterogenous System by Xilinx (AMD)
 - With Zynq UltraScale+ chip
 - Contains CPU (ARM Cortex A53), GPU (Arm® Mali™-400 MP2), RTP (Cortex®-R5F), FPGA (16nm FinFET+ PL)
 - Very power efficient (max 30W)



General

- Boards in UMD lab can be accessed with SSH from the uni-network (in wifi or vpn)
 - information on that during the week in mattermost
 - Problems? -> text Moritz
- Can also work in UMD lab
 - Text Moritz on mattermost
 - Will find date and time (during the week between 15 and 18 or on weekends)
- Work on UMD GitHub
- Maintain a good documentation about the steps you took and decisions you made