
camera_rotate

Lab Project

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2023-11-29

Task

Automatically rotate live frames so they are always displayed upright, independent of the actual camera orientation.

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Steps

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Steps

- Record camera image

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- Record camera image
- Read orientation sensor

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Steps

- Record camera image
- Read orientation sensor
- Rotate image using FPGA

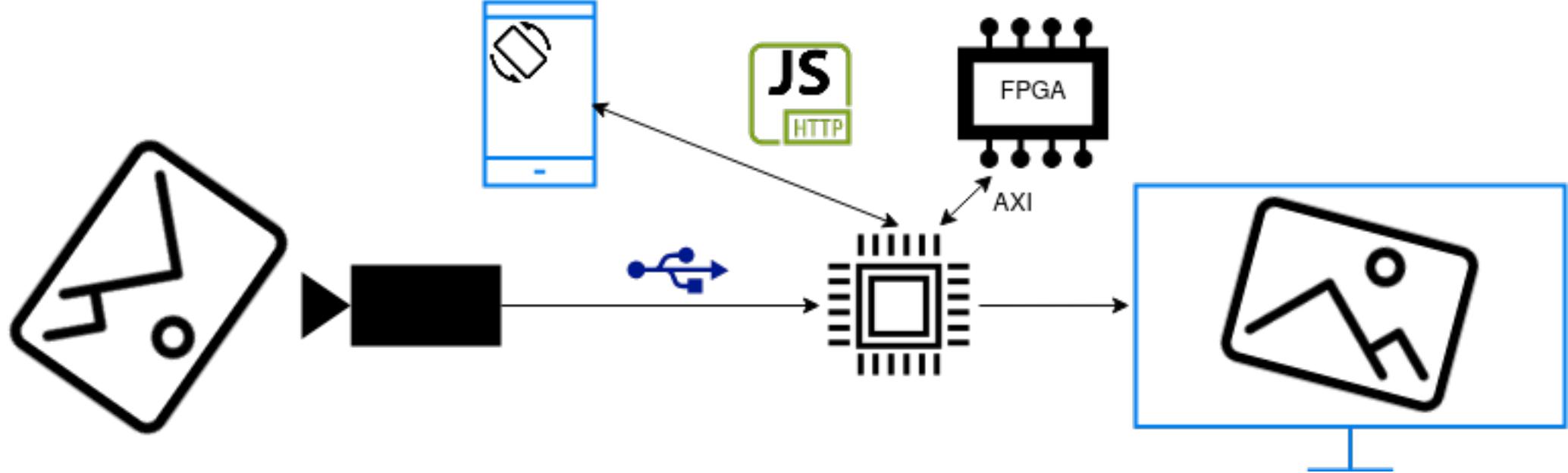
Task

Automatically rotate live frames so they are always displayed upright, independent of the actual camera orientation.

Steps

- Record camera image
- Read orientation sensor
- Rotate image using FPGA
- Output rotated image

Architecture



Limitations

- Only square picture (aspect ratio 1 : 1)

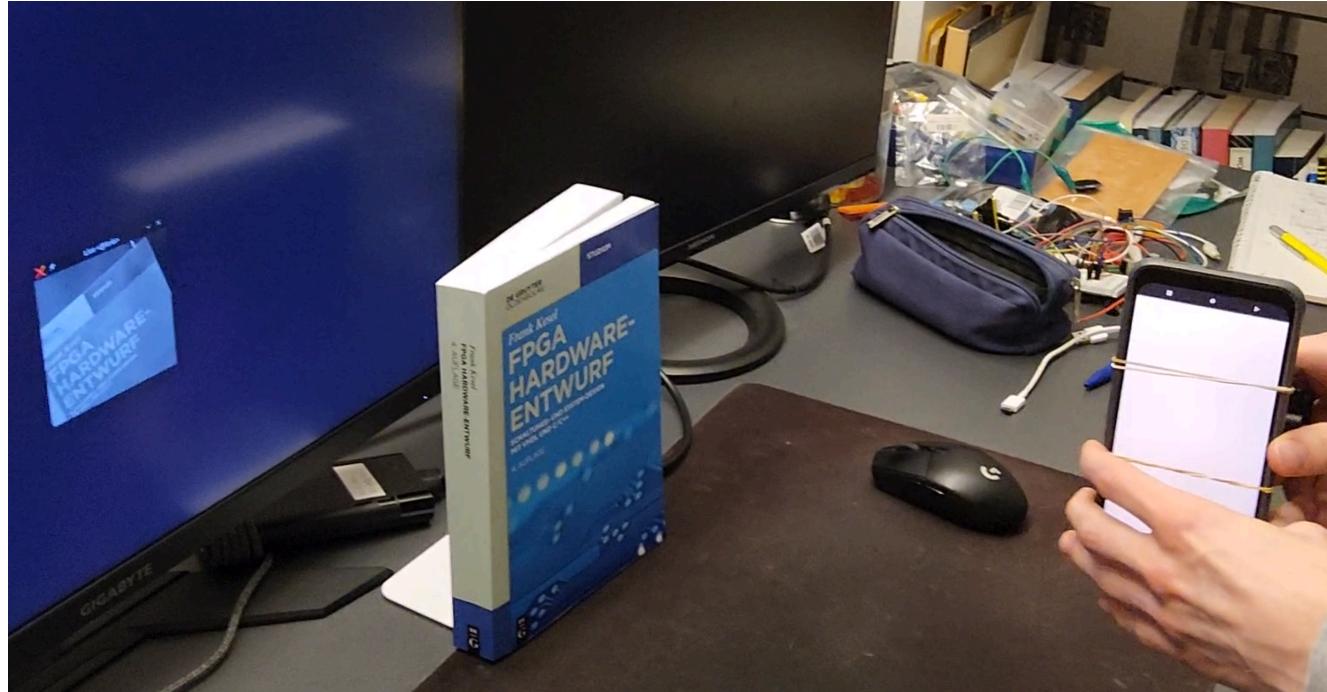
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- At most $\leq 512 * 512$ pixels per image

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- At most $\leq 512 * 512$ pixels per image
- Rotation only in multiples of $\pm 90^\circ$

Demo



Thank you for your attention!
