

# **Smartes Kamerasystem**

FH-Salzburg
Sony DADC Austria

Technik Gesundheit Medien

## **Einleitung**



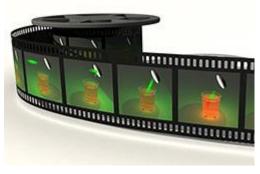






#### Aufgabenstellung







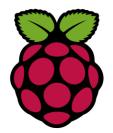






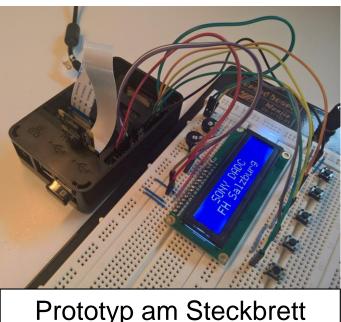
### **Umsetzung – Algorithmus**



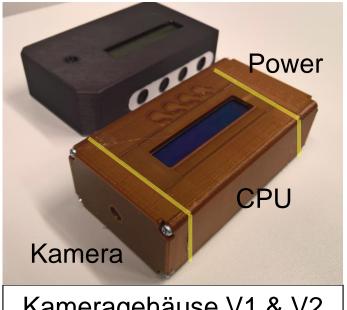








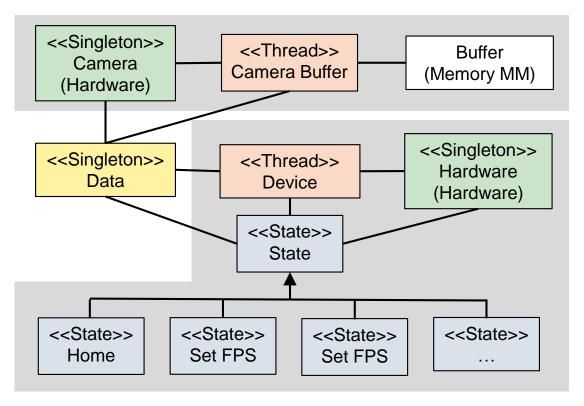
Prototyp am Steckbrett



Kameragehäuse V1 & V2

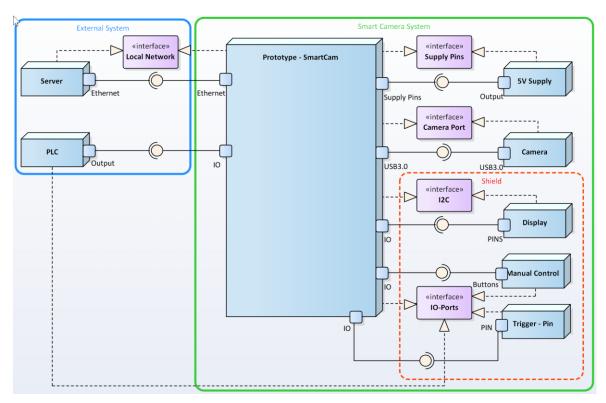
#### **Umsetzung – Algorithmus**





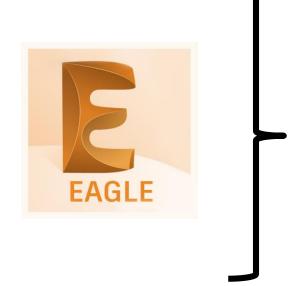
#### **Umsetzung – Hardware**

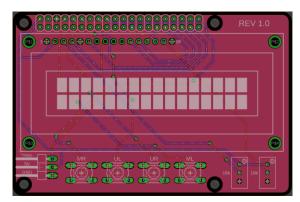




### **Umsetzung – Hardware**

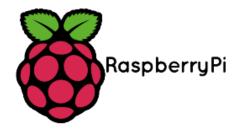








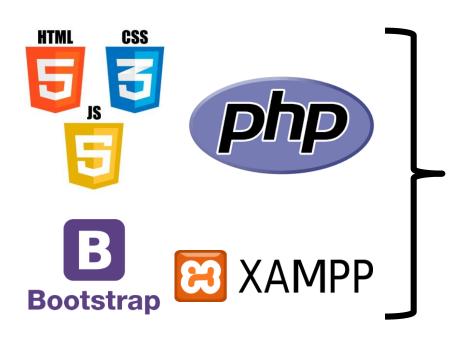


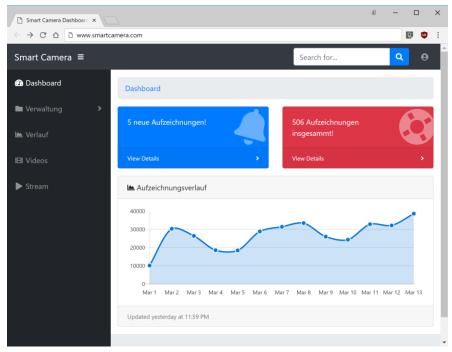




#### **Umsetzung – Dashboard**

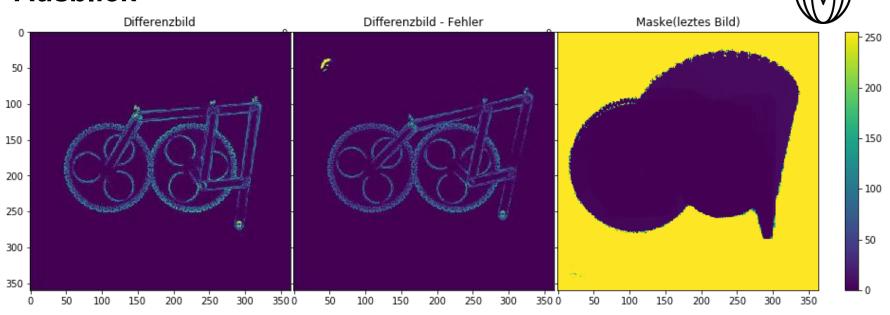






#### **Ausblick** Correlation Matrix 1.0 -0.8 Time Fall 100 -0.6 125 0.4 frames 0.2 learned frontier 0.0 training observations 0.0 0.2 0.6 1.0 150 175 100 125

#### **Ausblick**

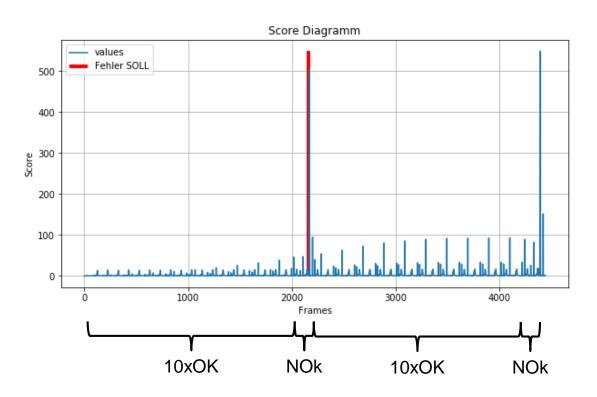


$$score = \frac{1}{standardization} \sum_{height \cdot wide} (difference \circ mask)^2$$

 $mask = mask \cdot \alpha - difference \cdot \beta + \gamma$ 

#### **Ausblick**







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