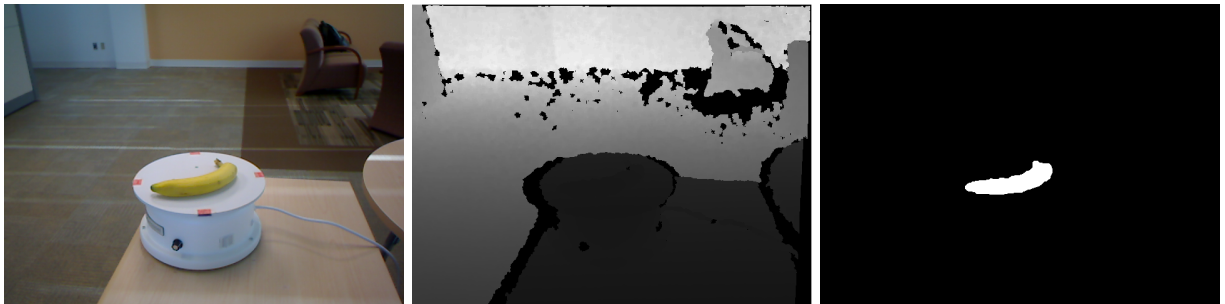# CS 543 - Progress Report

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1 Updated statement of the project definition and goals

2 Current member roles and collaboration strategies

3 Proposed approach

4 Data

(a) Color image   (b) Depth image   (c) Mask

Figure 1: A banana sample of Washington's RGB-D object dataset.

sub-dataset

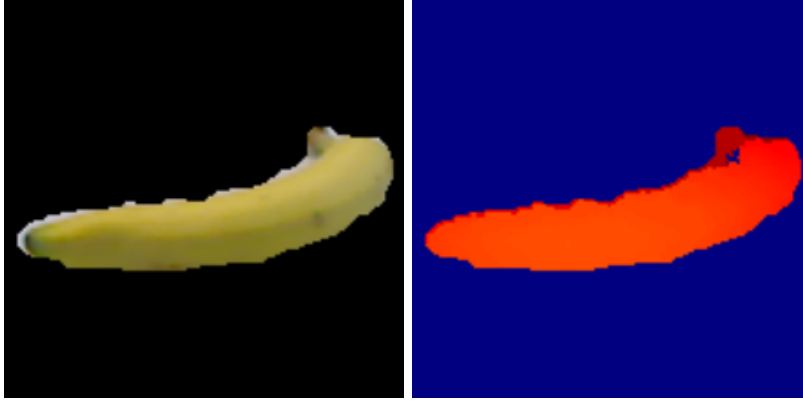# 5 Initial results

5.1 Data preprocessing

(a) Color image   (b) Depth image

Figure 2: Cropping banana sample after applying mask.

(a) Color image   (b) Depth image (after colorizing)

Figure 3: Rescaling banana sample to 227x227 by replicating the longer side.
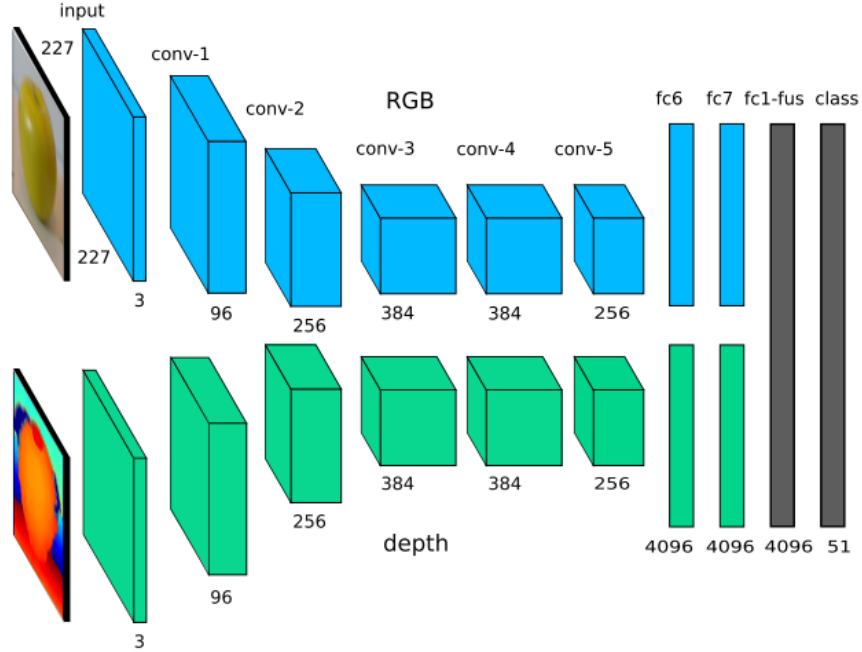
5.2 Model architecture

Figure 4: Model architecture proposed by Eitel et al. [1].

6 Current reservations and questions

(if any)

References

[1] A. Eitel, J. T. Springenberg, L. Spinello, M. A. Riedmiller, and W. Burgard. Multimodal deep learning for robust RGB-D object recognition. *CoRR*, abs/1507.06821, 2015.

Figure 5: Fusion model with RGB and depth streams.