






# Robin Baumann

## Computer Vision Engineer

 October 08, 1996

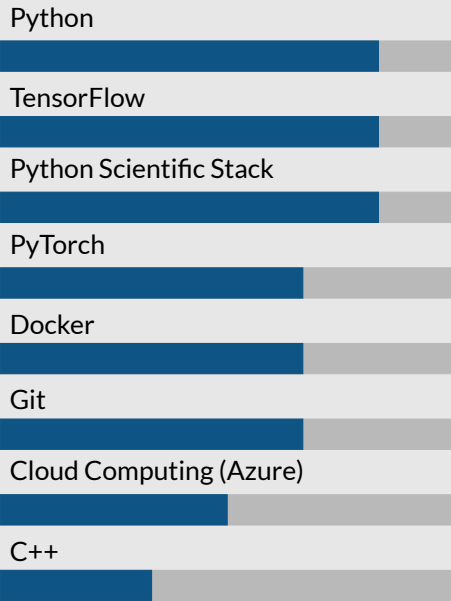
 Karlsruhe, Germany

 [www.robin-baumann.com](http://www.robin-baumann.com)

## About me

I received my MSc degree with distinction from Karlsruhe University of Applied Sciences, where I specialized in Machine Learning. I am particularly interested in Computer Vision and its intersection with Computer Graphics. I like to spend my free time doing all kinds of sports. For example, I currently prepare for a triathlon. To expand my knowledge, I read non-fiction books about different topics and enjoy spending time outdoors with my friends. My other passion besides sports is music. As such, I play the Saxophone and enjoy going to concerts and festivals.

## Skills



The skill scale is from 0 (Fundamental Awareness) to 6 (Expert).

## Education

- 10/19 – 10/21 Karlsruhe University of Applied Sciences  
M.Sc. in Computer Science, Final Grade: 1,2 (GPA equivalent: 4,0)
- 10/15 – 09/18 Baden-Württemberg Cooperative State University  
B.Sc. in Computer Science. Final Grade: 1,4 (GPA equivalent: 3,7)

## Employment History

- 11/21 – today Data Scientist (80 %) inovex GmbH  
Mostly Computer Vision Projects
  - Image recognition and foreground segmentation.
- 11/21 – 02/22 Research Assistant (20 %) Karlsruhe University of Applied Sciences  
Continuation of research from Master's thesis
  - Effects of data deficiency on shape encoding produced by shape autoencoders used in Neural Fields.
- 10/19 – 10/21 Working Student and Thesis Student inovex GmbH  
Several Deep Learning and Data Science projects.
  - Deep Learning for mobile devices with TensorFlow Lite
- 10/18 – 09/18 Big Data Scientist inovex GmbH  
Projects in Deep Learning and Data Engineering.
  - Point Cloud Classification for iOS Application with TensorFlow
- 10/15 – 09/18 Cooperative Student of Computer Science Testo SE & Co. KGaA  
Circled through many teams in the R&D department.

## Projects

- 04/21 – 10/21 Master Thesis inovex GmbH  
"Autodecoders for 3D shape completion from deficient 3D input"
  - Reconstruction of articulated and non-articulated shapes from single-view depth maps using Neural Occupancy Fields.
- 05/20 – 08/20 Google Summer of Code TensorFlow  
Implemented Mesh R-CNN and Pix3D in TensorFlow Graphics.
- 06/18 – 09/18 Bachelor Thesis Testo Visual Systems GmbH  
"Classification of reconstructed 3D structures based on object recognition of facade elements in multiple images"
  - Integrate Object Detection CNN into Structure from Motion pipeline
  - Fuse semantic information from CNN into 3D reconstruction

## Interpersonal Skills

I always try to build rapport with my co-workers. I do so by engaging in discussions and offer to stand by for rubber duck debugging. I try to lead by example and am received as a reliable co-worker by my peers. One of my strengths is to stay calm and perform consistently in stressful projects and prior to deadlines.



For an overview of my work and publications check out my website!