# Andrej Mikulik

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## Education

**2010-2014**
**Czech Technical University in Prague**
Faculty of Electrical Engineering
Center for Machine Perception
PhD student under supervision of Prof. Jiri Matas
Supported by the Microsoft Research PhD Scholarship program

**2004–2010**
**Charles University in Prague**
Faculty of Mathematics and Physics
2007 graduated with honours - Bachelor of Computer Science
2010 graduated with honours - Master of Computer Science

## Work experience

**since 2014**
**Google**
Software engineer

**2009**
**Microsoft Research Cambridge**
Cambridge Lab Internship Program
Implementation of high speed content based image search engine using image features and inverted file indexing under supervision of Dr. Andrew Fitzgibbon

**2006–2009**
**Logio s. r. o.**
Analyst and software developer,
working mainly on time series analysis, data extrapolation, promotional analysis and forecasting for demand planning, database and code performance optimization

**2006–2010**
University robotic team MART
Founder and team leader,
working mainly on computer vision, autonomous robot guidance system, representing faculty on competitions like Eurobot or Robotour

## Relevant skills

**Computer Vision, Machine Learning, Robotics**

**C/C++, C#, MySQL, MSSQL, Oracle RDBMS, Cassandra NoSQL DB, Node JS**

**Matlab**, Wolfram Mathematica, GIT, SVN

Windows, Linux at the administration level

Mathematical background (statistics, analysis, econometrics)

## Experience with

shell scripts, HTML5, JavaScript, CSS, PHP, Java, Python, Assembler, Prolog, Haskell

## Publications

Mikulik A., Radenović F., Chum O., Matas J.
**Efficient Image Detail Mining**
In proceedings of ACCV 2014

Mikulik A., Chum O., Matas J.
**Image Retrieval for Online Browsing in Large Image Collections**
In proceedings of Similarity Search and Applications 2013

Mikulik A., Perďoch M., Chum O., Matas J.
**Learning Vocabularies over a Fine Quantization**
International Journal of Computer Vision 2012

Chum O., Mikulik A., Perďoch M., Matas J.
**Total Recall II: Query Expansion Revisited**
In proceedings of Computer Vision and Pattern Recognition 2011

Mikulik A., Perďoch M., Chum O., Matas J.
**Learning a Fine Vocabulary**
In proceedings of European Conference on Computer Vision 2010

Mikulik A., Matas J., Perďoch M., Chum O.
**Construction of Precise Local Affine Frames**
In proceedings of the International Conference on Pattern Recognition 2010

Mach L., Mikulik A., Basovník S., Obdržálek D.
Detecting Scene Elements Using Maximally Stable Colour Regions
In proceedings of the International Conference on Research and Education in Robotics 2009

Mikulik A., Obdržálek D., Petrůšek T., Basovník S., Dekar M., Jusko P., Pechal R., Piták R.
Logion - A robot Which Collects Rocks
In proceedings of the International Conference on Research and Education in Robotics 2008

## Languages

**English (fluent), German (basic)**, Slovak (mother tongue)

## Interests

Education, programming, sports in general, classical music (I used to play the akordeon, the clarinet and the acoustic guitar)