



# gigel măceșanu

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## Personal information

Date of birth 03 February 1985  
Place of birth Săcele, Romania  
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## Education

- 2009–2012 **PhD degree**, *Department of Automation and Information Technology*, Transilvania University of Brașov, *PhD*.  
Thesis title: *Research on Digital Image Processing in Active Vision Controlled Mobile Robots*. Supervisor: Prof. Florin Moldoveanu. The main challenges treated were the design of a time-delay control structure for a stereo active vision setup and the mechanics behind the detection and the active tracking of human facial features in the context of *Human-Robot Interaction*.
- 2009–2011 **Masters degree**, *Faculty of Electrical Engineering and Computer Science*, Transilvania University of Brașov, Romania, *Automation and Information Technology*.  
Master theses title: *3D Reconstruction Based on Stereo Images*. Supervisor: Prof. Florin Moldoveanu. The objective of the thesis was to obtain an augmented 3D model of a scene imaged using a stereo cameras.
- 2004–2009 **Diploma Engineer**, *Faculty of Electrical Engineering and Computer Science*, Transilvania University of Brasov, Romania, *Automation and Applied Informatics Engineer*.  
Final project title: *An Autonomous Robot for Construction of an "Antique Temple"*. Supervisor: Prof. Florin Moldoveanu. In this thesis, an autonomous robot for collecting and transporting specific modules used in constructing an "Antique Temple" was designed. The implemented robotic system participated at an international robotics challenge competition.

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## Work experience

- since September 2015 **Team Manager**, *Driver Assistance*, Elektrobit Automotive, Romania.
- June 2013 - September 2015 **Technical lead**, *Driver Assistance*, Elektrobit Automotive, Romania.
- since October 2014 **Lecturer**, *Department of Automation and Technical Informatics*, Transilvania University of Brasov.
- September 2012 **Collaboration**, *Department of Information Technology*, Széchenyi István University, Győr, Hungary.  
The main challenges within the group are image processing algorithms for robotic navigation in unknown environments.
- September 2012–December 2012 **Researcher**, *Department of Electrical Engineering and Computers, Faculty of Sciences and Technology*, University of Coimbra, Portugal, ([http://http://mrl.isr.uc.pt/](http://mrl.isr.uc.pt/)).
- July 2007–September 2007 **Summer Intern**, *S.C. Rolem S.R.L.*  
Maintenance of automated machines.

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## Teaching experience

- 2013 Lecturer in Programmable Logic Controller.
- 2012-2013 Lecturer in Control Systems in Machine Vision.
- since 2015 Lecturer in Numerical Methods
- since 2012 Lecturer in Introduction in Microcontrollers.

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## Awards

- July 2009 Second place at the Conti Auto Tuning Technical Contest organized by S.C. Continental Automotive Systems S.R.L. Sibiu, Romania.
- May 2009 Third place at the Annual Session of the Students Scientific Gird, from Transilvania University, Faculty Of Electrical Engineering and Computer Science, Department of Automatics, Academic Year 2008-2009. Participated as co-author to the paper "An Autonomous Robot for an Antique Temple Construction", Braşov, Romania.
- May 2009 Participation at The National Contest of robotics (*RobotX*) organized by the Polytechnic University Bucureşti, Romania.
- July 2008 First award acquired at Technical Contest Programming an Embedded Application organized by S.C. Continental Automotive Systems S.R.L. Sibiu, Romania.

- May 2008 Participation award at The International Contest of Robotics EuRobot organized by the Eurobot Operating Group, Heidelberg, Germany.
- May 2008 First place at the Annual Session of the Students Scientific Gird, Transilvania University, Faculty Of Electrical Engineering and Computer Science, Department of Automatics, academic Year 2007-2008. Participated as co-author to the paper "An Autonomous Robot for Identifying, Collecting and Transporting Regular Shaped Objects", Braşov, Romania.
- April 2008 Second place acquired at The National Contest of Robotics (*RobotX*) organized by Polytechnic University Bucureşti, Romania.

## Research interests

Active tracking of facial features  
Object detection and recognition  
Time delay in Machine Vision

## Computer skills

Basic Lab Windows CVI, Code Vision AVR, MicroC for PIC.  
Intermediate Matlab, Linux, Microsoft Windows, Visual Studio, L<sup>A</sup>T<sub>E</sub>X, CMake, Arduino  
Advanced C, C++, Image processing (OpenCV), Embedded systems (microcontrollers), ADTF

## Languages

English Intermediate-Advanced  
Romanian Mother tongue

## Interests

Tennis, Snooker, Mountaineering, Skiing.