

Georgios Floros
Programmer & Researcher
Thessaloniki, Greece

November 28, 1982
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Personal Details

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|------------------------------|-----------|----------------------|--------------------------|
| Surname: | Floros | Address: | Stefanou Grigoriou 45-49 |
| First name: | Georgios | | Thessaloniki, 54352 |
| Father's name: | Drosos | | Greece |
| Marital status: | Married | Phone number: | +30-2310-946912 |
| Military obligations: | Fulfilled | | +30-6997-184904 (mobile) |

Education

- **RWTH Aachen University** Aachen, DE
PhD studies in Computer Science 2009 - 2013
 - Supervisor: Prof. Bastian Leibe
 - Thesis: Mobile Visual Scene Understanding
- **University of Crete** Heraklion, Crete, GR
MSc in Computer Science 2007 - 2009
 - Supervisor: Prof. Antonis Argyros
 - Thesis: Vision-based tracking of a 3D model of a human hand
 - Grade: "Excellent" (9.5/10)
- **Aristotle University of Thessaloniki** Thessaloniki, GR
Diplome in Electrical and Computer Engineering 2000 - 2005
 - Thesis: Implementation of a $\frac{1}{2}$ turbo codec in a C6713 DSK DSP cards of Texas Instruments
 - Grade: "Very good" (8.12/10)
- **Apostolos Paulos Lyceum** Thessaloniki, GR
Lyceum Apolyterion 1994 - 2000
 - Grade: "Excellent" (19.6/20)

Awards, Grants & Honours

Best Vision Paper Award at International Conference on Robotics and Automation 2014
Scholarship of the Pharmaceutical Association of Thessaloniki 2001
Prize of first from the Greek Ministry of Education 2000
Diplome of Honor in the 57th Mathematical Contest of the Greek Mathematica Society . . . 1997
Excellence prizes from the Greek Ministry of Education 1995-2000

Work Experience

- **DroneDeploy**
Senior Computer Vision Engineer
Home Office
September 2020 - Present
- **Georgios Floros Software Solutions**
Programmer & Researcher
Home Office
June 2020 - Present
- **Mapillary**
Automotive Solutions Engineer
Home Office
September 2018 - June 2020
- **Aeolus Robotics**
Computer Vision Team Leader
Home Office
January 2018 - September 2018
- **Aeolus Robotics**
Base Navigation Team Leader
Home Office
May 2017 - December 2017
- **BETA CAE System S.A.**
Software Developer
Thessaloniki, GR
Sep. 2013 - May 2017
Worked on
 - Geometry/Mesh Processing and 3D Model Comparison
- **RWTH Aachen University**
Research Assistant
Aachen, DE
Aug. 2009 - Aug. 2013
 - Supervisor: Prof. Bastian Leibe
 - Worked for the EUROPA project funded within FP7
- **Institute of Computer Science of FORTH**
Research Assistant
Heraklion, Crete, GR
Sep. 2007 - July 2009
 - Supervisor: Prof. Antonis Argyros
 - Worked for the GRASP project funded within FP7
- **Informatics and Telematics Institute of CERTH**
Research Assistant
Thessaloniki, GR
Dec. 2006 - Aug. 2008
 - Supervisor: Dr. Xenophon Zabulis
 - Worked in 3D scene reconstruction from images
- **SIEMENS A.G.**
Internship
Munich, DE
Oct. 2004 - Jan. 2005
 - Supervisor: Dr. Bernt Andrassy
 - Worked in the development of the speech recognition system in the department of Corporate Technology, Information and Communication

Teaching Experience

- **Diploma and Master Theses** RWTH Aachen University
Thesis Supervisor Aug. 2009 - Aug. 2013
 - Siyu Tang, Estimation of 3D Human Pose and Motion from a Video Sequence
 - Benito van der Zander, OpenStreetSLAM: Combining visual SLAM with cadastral maps
 - Wolfgang Mehner, Scene Flow computation for urban scenarios
 - Alexander Heinrichs, Shop Entrance Detection from Mobile Platforms in urban scenarios
 - Alexander Hermans, Real-time Indoor Semantic Segmentation
- **Machine Learning** RWTH Aachen University
Teaching Assistant Mar. 2012 - July 2012, Mar. 2010 - July 2010
- **Machine Learning** University of Crete
Teaching Assistant Sep. 2008 - Feb. 2009
- **Algorithms in Bioinformatics** University of Crete
Teaching Assistant Mar. 2008 - July 2009
- **Programming (C/C++)** University of Crete
Teaching Assistant Sep. 2007 - Feb. 2008

Publications

Peer-Reviewed Journal Articles

1. X. Zabulis and G. Floros. Modulating the shape and size of backprojection surfaces to improve accuracy in volumetric stereo. *EURASIP Journal on Advances in Signal Processing*, 2009. doi: 10.1155/2009/129789

Refereed Conference Proceedings

1. A. Hermans, G. Floros and B. Leibe. Dense 3D Semantic Mapping of Indoor Scenes from RGB-D Images. In Proceedings of the IEEE International Conference on Robotics and Automation 2014 (ICRA'14), Hong Kong, China.
2. G. Floros, B. van der Zander and B. Leibe. OpenStreetSLAM: Global Vehicle Localization Using OpenStreetMaps. In Proceedings of the IEEE International Conference on Robotics and Automation 2013 (ICRA'13), Karlsruhe, Germany.
3. G. Floros and B. Leibe. Joint 2D-3D Temporally Consistent Segmentation of Street Scenes. In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition 2012 (CVPR'12), Providence, Rhode Island, USA.
4. D. Mitzel, G. Floros, P. Sudowe and B. Leibe. Real-time Vision based Multi-Person Tracking for Mobile Robotics and Intelligent Vehicles. In Proceedings of the International Conference in Intelligent Robotics and Applications 2011 (ICIRA'11), Aachen, Germany.
5. G. Floros, K. Rematas and B. Leibe. Multi-Class Image Labeling with Top-Down Segmentation and Generalized Robust P^N Potentials. In Proceedings of the British Machine Vision Conference 2011 (BMVC'11), Dundee, Scotland.
6. X. Zabulis, N. Grammalidis and G. Floros. An efficient and memory-conserving implementation of multi-view stereo for wide-area reconstruction. In Proceedings of the International Symposium on 3D Data Processing, Visualization and Transmission 2008 (3DPVT'08), Georgia Tech, Atlanta, USA.
7. X. Zabulis and G. Floros. Modulating the size of backprojection surface patches in volumetric stereo for increasing reconstruction accuracy and robustness. In Proceedings of the 3DTV-Conference, 2007, Kos, Greece.

Theses

1. G. Floros. Vision-based tracking of a 3D model of a human hand. Master Thesis, 2009, University of Crete.
2. G. Floros. Implementation of a $\frac{1}{2}$ turbo codec in a C6713 DSK DSP cards of Texas Instruments. Diplome Thesis, 2005, Aristotle University of Thessaloniki.

Demos

1. G. Floros. Real-time Multi-person tracking from a mobile platform. In European Conference on Computer Vision 2010 (ECCV'10), Crete, Greece.

Languages

- English
 - Excellent
 - Certificate of Proficiency in English (as a foreign language)
 - Awarded by the University of Michigan (1998)
- German
 - Excellent
 - Zeugnis Zentrale Mittelstufenprüfung
 - Goethe Institut Inter Nationes (2003)
- French
 - Very good
 - Diplôme d' Études en Langue Française (DELF) 2ème degré
 - Ministère de l' Éducation Nationale (2004)

Programming Skills

- Operating Systems
 - **Expert:** Linux/Unix, Microsoft Windows, MacOS
- Programming Languages
 - **Expert:** C/C++, Python, Matlab
 - **Intermediate:** Javascript, Java
- Other technologies
 - **Expert:** CUDA, Tensorflow, Pytorch, OpenCV, Qt, Git, CMake

Extracurricular activities

- Sports (Soccer, Basketball, Volleyball)
- Volunteering
- Books (Literature, Philosophy, History)