



Europass Curriculum Vitae

Personal information

First name **Gabor**
Surname **Harsanyi**
Nationality **Hungarian**
Date of birth **20/03/58**
Place of birth **Budapest**
Gender **male**

Affiliation

Position **Professor, Head of Department**
Department **Department of Electronics Technology
Budapest University of Technology and Economics**

Phone **(+36 1) 4633634**

Fax **(+36 1) 4634118**

E-mail **harsanyi@ett.bme.hu**

Academic degree **DSc**

Year of obtaining **2001**

Qualification **M.Sc.E.E.**

Date **1981**

Name of organisation providing the degree: **Budapest University of Technology and Economics**

Language skills and competences

Mother tongue **Hungarian**

Language(s)

Language	Understanding		Speaking		Writing
	Listening	Reading	Interaction	Production	
English	B2-Indepen.	B2-Indepen.	B2-Indepen.	B2-Indepen.	C1-Profici.
German	C1-Profici.	C1-Profici.	C1-Profici.	C1-Profici.	C1-Profici.

Language certificate(s):

German Advanced Level Exam (Hungarian Institute for Languages)
English Intermediate Level Exam (Hungarian Institute for Languages)
Russian University Exam

Professional information

Scholarships and awards/w date	1992 Best paper of Session Award at the International Symposium on Microelectronics 1998 Fellowship Award of the International Microelectronics and Packaging Society (IMAPS) 1997-2000 "Szechenyi" Professor Scholarship Award 1999 and 2000 Faculty Scholarship Award of IEEE CPMT 2011 Denis Gabor award 2012 Patent Standard Prize of the Hungarian Academy of Sciences 2014 Officer's Cross Order of Merit of Hungary
Leaves & research abroad	1996 Florida International University 6 month
Fields of education	(I) Electronics technology, interconnection and packaging (II) Sensor technologies and applications
Education activities in English	(I) Electronics technology, interconnection and packaging (II) Sensor technologies and applications
Research fields	Reliability and failure analysis of electronic circuit modules Sensors in biomedical applications
5 most important results	1. Sántha H., Harsányi G., Stubán N. Microfluidic channel, method for its implementation, and microfluidic system containing said channel. Int. patent appl. 2009, no. WO2009047573 2. Besenyei E, Harsányi G, Katona G, Gas and humidity sensitive device and its manufacturing process, Hungarian Patent, no. OTH 195999, 1989 3. Sántha H, Harsányi G, Balogh B, Interdigital electrode geometry. Hngarian Patent, 0600702, 2008 4. Editorial board member at the journal "Microsystem Technologies" 5. Editorial board member at the journal "Sensor Review"
Number of publications	298
Number of conference presentations	138
Membership(s)	International Microelectronics and Packaging Society (IMAPS) IEEE Components, Packaging and Manufacturing Society (CPMT) National Electronics Society of Hungary (NESH, MELT) Committee of Electron Devices and Technologies, Hungarian Academy of Sciences (president for 6 years)

5 most important publications in the past 5 years

1. Attila Bonyár, Péter Nagy, Viktor Mayer, András Vitéz, András Gerecs, Hunor Sántha, Gábor Harsányi. A colorimetry based, semi-automated portable sensor device for the detection of arsenic in drinking water, *SENSORS AND ACTUATORS B-CHEMICAL* 251: pp. 1042-1049. (2017) (IF=5.401)
2. A Géczy, B Kvanduk, B Illés, G Harsányi. Comparative Study on Proper Thermocouple Attachment for Vapour Phase Soldering Profiling, *SOLDERING & SURFACE MOUNT TECHNOLOGY* 28:(1) pp. 7-12. (2016) (IF=1.46)
3. Tamás Garami , Olivér Krammer, Gábor Harsányi, Péter Martinek, Method for validating CT length measurement of cracks inside solder joints, *SOLDERING & SURFACE MOUNT TECHNOLOGY* 28:(1) pp. 13-17. (2016) (IF=1.46)
4. Bálint Medgyes, Barbara Horváth, Balázs Illés, Tadashi Shinohara, Akira Tahara, Gábor Harsányi, Olivér Krammer, Microstructure and elemental composition of electrochemically formed dendrites on lead-free micro-alloyed low Ag solder alloys used in electronics, *CORROSION SCIENCE* 92:(C) pp. 43-47. (2015) (IF=5.154)
5. Bálint Medgyes, Xiankang Zhong, Gábor Harsányi, The effect of chloride ion concentration on electrochemical migration of copper, *JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS* 26:(4) pp. 2010-2015. (2015)) (IF=1,798)

5 most important publications

1. Harsányi, G.: Polymer Films in Sensor Applications, Technomic Publishing Co., Lancaster (USA), Basel, 1995. p. 435., független idéző: 199
2. Harsányi, G.: Sensors in Biomedical Applications, Technomic Publishing Co., Lancaster (USA) R, Basel, (Switzerland), 2000, p. 350., független idéző: 76
3. Harsányi G., Copper May Destroy Chip-Level Reliability: Handle with Care – Mechanism and Conditions for Copper Migrated Resistive Short Formation, *IEEE ELECTRON DEVICE LETTERS* 20:(1) pp. 5-8. (1999) (IF: 2.599)
4. B Horváth, B Illés, T Shinohara, G Harsányi: Effects of Humidity on Tin Whisker Growth - Investigated on Ni and Ag Underplated Layer Construction, *THIN SOLID FILMS* 520: (1) pp. 384-390. (2011), (IF: 1.890)
5. B Horváth, B Illés, T Shinohara, G Harsányi. Whisker Growth on Annealed and Recrystallized Tin Platings, *THIN SOLID FILMS* 520: pp. 5733-5740. (2012) (IF: 1.890)