

### **Prof. Dr. Eng. Iosif Kaposta - Short CV**

➤ **Short presentation:** Iosif Kaposta is Professor in Mechanical Engineering at the Aurel Vlaicu Univ. of Arad (UAV), and also works as researcher in Prof. Duma's group (<http://3om-group-optomechatronics.ro/>). He graduated in Manufacturing Engineering from the Polytechnic University of Timisoara (UPT), Romania (1975-1980). He worked as Teaching Assistant with UPT (1980-1992). He received his Ph.D. - cum laude - in Industrial Engineering, from UPT, in 1995. Iosif Kaposta joined the "Aurel Vlaicu" University of Arad (UAV) as Assistant Professor in 1992, promoted to Associate Professor in 1996, and to Professor in 2001. He is author of more than 80 publications in journals and conferences, 15 books and book chapters, and has 7 patents awarded. Iosif Kaposta is *evaluator of workers protection*, since 1997, *evaluator of the security level and working place risks*, since 1998, *expert in the elaboration of environmental surveys* and *reviewer of grants* of the National Romanian Research and Development Plan, since 2004.

➤ **Main research interests:** Machine Elements, Mechatronics, Ecological and Environmental Engineering, Industrial Engineering.

➤ Main affiliations: **EUROP-RO**, branch of the **European Robotics Platform EUROP** - since 2006, **SRR** (Romanian Robotics Society) - since 2008.

➤ **Manager Positions:** (i) UAV: Dean of the Faculty of Engineering and Economics (1994-1999), Chair of Product Design Dept. (2005-2006); (ii) Industry: CEO of Saltex-Arad (1995-1997), CEO of Terra Internațional Arad (1998-2003), Manager of SC Original Tehnic Arad (2003 – present).

➤ **Projects with Industry:** (i) *Industry interest in R&D for Western Romania* – ISIM Timisoara (1998), 60.000 RON; (ii) *Design of a stand with dynamically balanced axes* – S.C. ASTRA Arad (1992), 15.000 RON; (iii) *Study on the improvement of bearings of a micro-hydroelectric power plant* - RENEL Arad (1995), 80.000 RON; (iv) *Automatic installation for the sanding of wagon chassis* - MEVA Turnu Severin (1983), 95.000 RON;

➤ **Research Projects – Researcher PARTNERSHIP Grant 1682/2011, ANCS:** *Optical Coherence Tomography (OCT) systems with handheld and endoscope probes for real-time investigations in material studies and for in vivo medical imaging* 2012-2016; <http://3om-group-optomechatronics.ro/> (950k€);

➤ **Patents:** (i) RO89975 (A2) *Harmonic Frontal Gear Transmission*; (ii) RO95338 (A2) - *Harmonic Frontal Transmission with Multiple Piston Deforming Device*; (iii) RO95337 (A2) – *Bi-harmonic Frontal Gear Reducer*; (iv) RO96769 (A2) - *Bi-harmonic Frontal Gear Reducer with a Single Flexible Element*; (v) RO104401 (B1) - *Device for Measuring the Shifting on Two Directions*; (vi) RO104402 (B1) - *Device for Length Determination*; (vii) RO98.374 *Harmonic Frontal Transmission with Contactless Deforming Device*. <https://worldwide.espacenet.com/Kaposta>

➤ <http://www.researcherid.com/rid/D-7985-2011>; Scopus author Id 26424715600;