



Dr. Rafał Kielbik

Curriculum vitae

Rafał KIEŁBIK was born in Lodz, Poland, on July 26, 1974. He received the M.Sc. degree from the Technical University of Lodz (TUL) in 1998 and the PhD degree from TUL in 2005 and from Universitat Politècnica de Catalunya (UPC) in 2006.

In 1999 he was granted the ERASMUS scholarship at UPC. From 2002 to 2005 he participated in RECONF2 project of the fifth European Program and two projects sponsored by Polish National Research Committee. All these activities were related to his PhD thesis entitled "Efficient Methods of Resource Management in Re-Programmable Systems". From 2007 to 2010 he was the coordinator of the TUL team participating in the PERPLEXUS project of the sixth European Program. In 2010 he has proposed an architecture of dynamically reconfigurable microprocessor (REuP) – a kind of novel No-Instruction Set Computer (NISC) processing unit, which could replace the current Central Processing Units (CPUs) in personal computers.

From 2006 to 2011 he participated in two projects granted by Polish Ministry of Science and Higher Education and devoted to the development of the prototypes of high performance chemical simulator. From 2014 to 2015 he was coordinating the construction of a full-scale, commercial version of such simulator called ARUZ. It is composed of 26 000 FPGAs (Field Programmable Gate Arrays) and executes molecular-level simulations in Bionanopark in Łódź.

Apart from research activities described above, he delivers classes in hardware description languages, reconfigurable devices, embedded systems, object-oriented programming and compilers.

In 2010 he received Bronze Medal for Long Service and in 2017 he received Medal of the National Education Commission.

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