

Curriculum Vitae

Personal information

First name SURNAME **Kinga ALBERT**
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 Citizenship Romanian, Hungarian
 Date of birth 28 January 1990



Work experience

Dates	July 2015 – Present
Position	PhD Student
Activity	On-board calibration method for the PHI instrument on the Solar Orbiter mission. <i>Supervisor: Dr. Johann Hirzberger, Prof. Dr.-Ing. Harald Michalik</i>
Name and address of employer	Max Planck Institute for Solar System Research Justus-von-Liebig-Weg 3, 37077, Göttingen, Germany http://www.mps.mpg.de/en
Type of business or sector	Space Physics Research
Dates	September 2014 – June 2015
Position	Young Graduate Trainee
Activity	Study of the Time Triggered Ethernet (TTE) communication protocol for future satellite platform and launcher applications. <i>Project coordinators: Jean-Francois Dufour, Girogio Magistrati</i>
Name and address of employer	European Space Agency, European Space Research and Technology Centre (ESTEC), Data Systems Division Keplerlaan 1, 2201AZ, Noordwijk, The Netherlands http://www.esa.int/About_Us/ESTEC
Type of business or sector	Space Industry
Dates	June 2013 – September 2013
Position	Student intern
Activity	Software development for a simulation program tracking ion motion in the magnetosphere of Earth. <i>Project responsible: Dr. Hans Nilsson</i>
Name and address of employer	Swedish Institute of Space Physics, IRF (Institutet för rymdfysik), Solar Terrestrial Physics group Rymdcampus 1, 981 28, Kiruna, Sweden http://www.irf.se/program/stp/
Type of business or sector	Space Physics Research
Dates	April 2011 – August 2012
Position	Software Developer
Activity	Application software development of dashboard instrumentation for commercial vehicles.
Name and address of employer	Continental Automotive Romania S.R.L. Calea Martirilor 1, 300724 / Str. Siemens 1, 300704, Timișoara, Romania http://www.conti-online.com/generator/www/ro/en/continental/hr/general/home/index_en.html
Type of business or sector	Automotive Industry

Awards	
Date	May 2014
Title	Bengt Hultqvist Prize
Description	The scholarship rewards students of Luleå University of Technology for their successful academic studies in a space educational program, and for their initiatives in international exchange.
Awarding Institution	Kiruna Rotary Club
Education	
Dates	September 2012 – August 2014
Title of qualification	Master of Science (120 credits) - Space Technology
Name and type of Institution	Luleå Tekniska Universitet (University) Kiruna (Sweden)
Profile	Spacecraft Design
Student project	<i>Magnetic Attitude Determination System (MADS):</i> the design, implementation and testing of an attitude sensor, based on a magnetometer, for small sized spacecraft. <i>The system was tested on</i> a stratospheric balloon provided by Luleå University of Technology (LTU) and a supersonic student rocket, in collaboration with Centre National d'Etudes Spatiales (CNES). <i>Main activities and responsibilities:</i> Project management, System design, Software development <i>Project coordinators:</i> Dr. Thomas Kuhn, Kjell Lundin
Final thesis	SvalPoint: A Multi-track Optical Pointing System Design and development of an online pointing system for The Kjell Henriksen optical observatory on Svalbard, studying the middle and upper atmosphere. SvalPoint controls multiple instruments based on information from a target location program. <i>Project responsible and supervisor on sight:</i> Dr. Fred Sigernes, <i>Examiner:</i> Dr. Jana Mendrok
Dates	October 2008 – July 2012
Title of qualification	Bachelor in Engineering (240 credits) - Computer Science
Name and type of Institution	Universitatea "Politehnica" din Timișoara (University) Timișoara (Romania)
Profile	Computer Science and Information Technology
Final thesis	Fuzzy Logic Algorithms for Queue Management in DiffServ Architectures Design and testing of a queue management algorithm using fuzzy logic for quality of service insurance in TCP/IP. <i>Project coordinator</i> Dr. Doru Todinca
Personal skills	
Mother tongue	Hungarian
Other languages	English (proficient), Romanian (proficient), German (basic), Swedish (basic)
Social skills	
	<ul style="list-style-type: none"> - Good team spirit and intercultural awareness gained through various project works. - Good communication skills gained through team work, teaching and presentations. - Leadership skills gained through project responsible and leader role. - Independent work skills gained through various project works.
Professional skills	
	<ul style="list-style-type: none"> - Communication techniques: Time Triggered Ethernet, CAN, SpaceWire, SpaceFibre, MIL-STD-1553 - Programming Languages: C, Embedded C, Assembly, Pascal, Fortran, Java, C++, MATLAB, LogiCAD, MATLAB Simulink - Hardware description languages: VHDL, Verilog - Operating System competences: Windows, Unix – based operating systems, RTOS - CAD: NX 8.5 - Tools: Eclipse, Doors, PVCS Version Management, CANoe, Omnet++, Wireshark - Strengths and interests: <ul style="list-style-type: none"> - Space instrumentation, payloads - Spacecraft system engineering - On-board data handling, digital system design