

Niko Tsutskiridze

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Personal Information

Date of Birth: 25/03/1989

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Education

Doctor 2016	Georgian Technical University. Thesis: „Development of the Geometrical Description of the ATLAS Detector for the Simulation and Reconstruction Software Package“
Master (With Honours) 2012	Georgian Technical University. Thesis: „Development of Geometrical Description of Magnet System of ATLAS Detector for the Simulation and Reconstruction Software Packages“
Bachelor (With Honours) 2010	Georgian Technical University

Trainings

- ❖ European Organization for Nuclear Research (CERN), Geneva, Switzerland, 03/2016-08/2016
„Performance analysis of Simulation Packages of ATLAS Detector and Creation of Methodical Instructions“
- ❖ European Organization for Nuclear Research (CERN), Geneva, Switzerland, 02/2014-07/2014
„Development of Geometrical Modeling Method of ATLAS Detector for the Simulation and Reconstruction Software Packages“
- ❖ European Organization for Nuclear Research (CERN), Geneva, Switzerland, 05/2012-06/2012
- ❖ „Development of Geometrical Description of Magnet System of ATLAS Detector for the Simulation and Reconstruction Software Packages“

Work Experience

Nuclear Engineering Centre (Georgian Technical University), 2018-Till Now
Position: *Simulation Stream Manager*

Nuclear Engineering Centre (Georgian Technical University), 2011-2018
Position: *Designer-Programmer*

Georgian Technical University, 2018-2020
Position: *Associate Professor*

Conferences/Forums/Workshops

- 1) TileCal Week Computing. Geneva, Switzerland. 2021
“Geometry updates for simulation”
- 2) Muon Software meeting. Geneva, Switzerland. 2020
“Update on AGDD description of platforms. Odd and Even sectors”
- 3) Muon Software meeting. Geneva, Switzerland. 2020
“Update on description of platforms in AGDD”
- 4) Muon Software meeting. Geneva, Switzerland. 2020
“Update on passive NSW materials”
- 5) Muon Software meeting. Geneva, Switzerland. 2019
“Flexible chain - Sectors 11 and 15”
- 6) Muon Software meeting. Geneva, Switzerland. 2019
“FEET Description Updates”
- 7) Muon Software incl. NSW (Muon Week). Geneva, Switzerland. 2019
“Passive Material Description”
- 8) MUON SOFTWARE MEETING. Switzerland, Geneva. 2019
“Flexible Chain (Sector 9) study”
- 9) MUON SOFTWARE MEETING. Switzerland, Geneva. 2019
“Gitlab Repository for new XML's”
- 10) CERN Cognitive Festival in Georgia. CERN Workshop. Tbilisi, Georgia, 2018
“Investigation of Geometry Modeling Precision Influence on quality of Physics Analysis in ATLAS Experiment”
- 11) South-Caucasus Computing and Technology Workshop-SCCTW'2016, Tbilisi, Georgia, 2016
“Investigation of Geometry Modeling Method for ATLAS Simulation”
- 12) Tools and Methods of Competitive Engineering-TMCE 2016. Aix-en-Provence, France, 2016
„Development of CATIA_2_GEANT Interface for Simulation of High Energy Physics Experiments“
- 13) ATLAS-SW-Week: Software & Computing Workshop. Geneva, Switzerland, 2016
„Geometry Infrastructure Quality Analyses“

- 14) XXV International Symposium on Nuclear Electronics & Computing-NEC'2015. Montenegro, Budva, Becici, 2015
- 15) „Simulation Loop between CAD systems, Geant4 and GeoModel: Implementation and Results.“;
- 16) Third ATLAS South Caucasus Grid & Cloud Computing Workshop & Tutorial. Tbilisi, Georgia, 2014
“Development of Loop for ATLAS Simulation Packages”
- 17) ATLAS-Muon-Week. Geneva, Switzerland, 2013
„Updates on MS geometry including NSW based on CATIA drawings“
- 18) The second ATLAS South Caucasus Software/Computing Workshop & Tutorial. Tbilisi, Georgia, 2012
“Modification of G4 geometry baseline according to comparison with CATIA reference”
- 19) 5 workshops organized by European Organization for Nuclear Research (CERN), Geneva, Switzerland, 2012-2016

Articles

- 1) Alexander Sharmazanashvili, Archil Surmava, Niko Tsutskiridze, Besik Kekelia. “USAGE OF RADIATION AND ABSORPTION LENGTH CALCULATIONS IN COMPARE ANALYSES OF GEOMETRY DESCRIPTIONS OF ATLAS DETECTOR“. Publishing House “Technical University”. No.2(60), 2021
- 2) Niko Tsutskiridze. „Development of a Method for Reading Geometric Description for comparative Analysis“. Georgian Technical University. GTU Proceedings, №1 (519), 2021
- 3) Niko Tsutskiridze. “INVESTIGATION OF INACCURACIES OF GEOMETRIC DESCRIPTION FOR THE ATLAS EXPERIMENT”; Georgian Technical University. Transactions, Automated Control Systems, 2019, N1(28), pp. 62-71
- 4) Archil Surmava, Besik Kekelia, Niko Tsutskiridze; “Geometrical Analysis of Toroidal Magnet for Simulation Tasks of ATLAS”; Georgian Technical University. Transactions, Automated Control Systems, 2016, N2(22), pp. 161-172
- 5) Alexander Sharmazanashvili, Niko Tsutskiridze; “DEVELOPMENT OF CATIA_2_GEANT INTERFACE FOR SIMULATION OF HIGH ENERGY PHYSICS EXPERIMENTS”; Proceedings of TMCE 2016, Aix-en-Provence, France, edited by I. Horváth, J.-P. Pernot, Z. Rusák; 2016.
- 6) Alexander Sharmazanashvili, Niko Tsutskiridze; “SIMULATION LOOP BETWEEN CAD SYSTEMS, GEANT-4 AND GEOMODEL: IMPLEMENTATION AND RESULTS”; Physics of Particles and Nuclei Letters, 2016, Vol. 13, No. 5, pp. 724–727
- 7) Alexander Sharmazanashvili, Niko Tsutskiridze, Archil Surmava, Besik Kekelia; „COMPARE ANALYSIS OF GEOMETRIC DESCRIPTIONS OF COILS OF ATLAS DETECTOR”; Georgian Technical University. Transactions, Automated Control Systems, 2015, N1(19), pp. 13-22

- 8) Geno Vachiberidze, Niko Tsutskiridze, Natia Kirkitadze; „For the Issue of Mathematical Modeling of Artificial Satellite to Orbit”; Georgian Technical University. Transactions, Automated Control Systems, 2010, N1(8), pp. 34-40