

Mamuka Sanikidze

Personal Information

Name Surname: **Mamuka Sanikidze**
Date of Birth: 1958-02-03
Sex: Male
Citizenship: Georgian
Phone: 599950443
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Education

Academic Degree: Ph.D./Equivalent to Ph.D
Educational Institution: Moscow Construction Engineering Institute
Qualification: Construction structures, buildings and facilities
Date of grant: 2006-06-21
Country: Russia

Academic Degree: Bachelor
Educational Institution: Military-Engineering Academy of General Staff of Georgian Armed Forces
Qualification: Officer with higher military-engineering, operational-strategic education
Date of grant: 2004-07-30
Country: Georgia

Academic Degree: Master's/Equivalent to Master's
Educational Institution: Georgian Polytechnic Institute
Qualification: Builder Engineer
Date of grant: 1980-07-05
Country: Georgia

Work Experience

Organization: Georgian Technical University
Structural Unit: The Institute of Constructions, Special Systems and Engineering Support
Position: Chairman of the Scientific Board of the Institute
Date of commencement of work: 2021-12-27
Date of completion of work: 2024-02-21

Organization: Georgian Technical University

Structural Unit:	Construction Faculty, Department of civil and industrial engineering
Position:	Associate professor
Date of commencement of work:	2021-10-01
Date of completion of work:	2024-02-21

Organization:	Georgian Technical University
Structural Unit:	Construction Faculty, Department of civil and industrial engineering
Position:	Visiting professor
Date of commencement of work:	2015-01-14
Date of completion of work:	2021-07-31

Organization:	Georgian Technical University
Structural Unit:	The Institute of Constructions, Special Systems and Engineering Support
Position:	the head of surface transformative structures department (chief research fellow)
Date of commencement of work:	2011-01-03
Date of completion of work:	2024-02-21

Organization:	Georgian Technical University
Structural Unit:	The Institute of Constructions, Special Systems and Engineering Support
Position:	Head of the Theoretical studies of military engineering arts and education programs department (senior research fellow)
Date of commencement of work:	2006-04-18
Date of completion of work:	2010-12-30

Organization:	Georgian Technical University
Structural Unit:	Military-Engineering Academy of General Staff of Georgian Armed Forces
Position:	Head of training methodology department
Date of commencement of work:	2000-11-08
Date of completion of work:	2006-04-17

Organization:	Special Engineering State Center of Georgia
Structural Unit:	Department of transformable constructions
Position:	Senior research fellow
Date of commencement of work:	1999-10-11
Date of completion of work:	2000-11-07

Organization:	Georgian Technical University
Structural Unit:	Institute of Space Structures
Position:	Senior research fellow
Date of commencement of work:	1992-10-20

Date of completion of work: 1999-10-11

Organization: Georgian Technical University
Structural Unit: Institute of Transformable Constructions
Position: Senior research fellow
Date of commencement of work: 1991-05-01
Date of completion of work: 1992-10-19

Organization: Georgian Polytechnic Institute
Structural Unit: Special Construction Bureau
Position: Head of the Department of Construction and Prospective Works - Deputy Chief Designer
Date of commencement of work: 1988-12-30
Date of completion of work: 1991-04-30

Organization: Georgian Polytechnic Institute
Structural Unit: Special Construction Bureau
Position: head of the sector
Date of commencement of work: 1987-09-02
Date of completion of work: 1988-12-28

Organization: Georgian Polytechnic Institute
Structural Unit: Special Construction Bureau
Position: Scientific employee
Date of commencement of work: 1986-07-17
Date of completion of work: 1987-09-01

Organization: Moscow Construction Engineering Institut
Structural Unit: Department of metal constructions
Position: Graduate student
Date of commencement of work: 1983-01-02
Date of completion of work: 1986-07-16

Organization: Georgian Polytechnic Institute
Structural Unit: Construction Research Bureau
Position: Engineer
Date of commencement of work: 1981-06-01
Date of completion of work: 1982-12-27

Organization: Georgian Polytechnic Institute
Structural Unit: Department of metal constructions
Position: Senior technician
Date of commencement of work: 1980-11-01
Date of completion of work: 1981-05-31

Qualification Raising

Trainings

Organization:	International Committee of the Red Cross
Subject:	Law of Armed Conflict
Country:	Georgia
Date:	2004-03-27

Projects & Grants

Name of the project/grant:	Quick-build inventory transformable and transportable civil and military extreme bridges
Position:	Chief scientist-collaborator
Donor:	Georgian Technical University
Leader Organization:	The Institute of Constructions, Special Systems and Engineering Support
Start End Date:	2022-01-01 - 2024-12-31

Name of the project/grant:	Assessment of the existing engineering situation in the selected special direction in the conditions of total defense and development of the methodology of the engineering arrangement of the territory
Position:	Chief scientist-collaborator
Donor:	Georgian Technical University
Leader Organization:	The Institute of Constructions, Special Systems and Engineering Support
Start End Date:	2021-01-01 - 2024-12-31

Name of the project/grant:	Development and creation of extendable reflector antenna for satellite bases. Joint project - USA, Ukraine, Georgia
Position:	Engineer-researcher, technologist
Donor:	"EOS Data Analytics", "Noosphere Ventures"
Leader Organization:	"T.S.Georgia"
Start End Date:	2019-07-01 - 2021-09-30

Name of the project/grant:	A quick-build, reusable, transportable metal bridge for use in extreme situations
Position:	Chief scientist-collaborator
Donor:	Georgian Technical University
Leader Organization:	The Institute of Constructions, Special Systems and Engineering Support
Start End Date:	2018-01-01 - 2019-12-20

Name of the project/grant: Determination of a systematic and classified concept of engineering preparedness, battle activities and operations, also engineering maintenance of natural and artificial extreme situations for Georgian infrastructure and territory defense
Position: Chief scientist-collaborator
Donor: Georgian Technical University
Leader Organization: The Institute of Constructions, Special Systems and Engineering Support
Start | End Date: 2016-01-10 - 2020-06-30

Name of the project/grant: Inventory, transformable, multispan, transportable rapidly builds bridge
Position: Chief scientist-collaborator
Donor: Georgian Technical University
Leader Organization: The Institute of Constructions, Special Systems and Engineering Support
Start | End Date: 2016-01-08 - 2016-12-31

Name of the project/grant: 19.2 m long emergency bridge
Position: 19.2 m long emergency bridge
Donor: Georgian Technical University
Leader Organization: The Institute of Constructions, Special Systems and Engineering Support
Start | End Date: 2016-01-01 - 2016-12-31

Name of the project/grant: Creation of the single-span folding-unfolding commercial bridge and definition of its transportation and assembly schemes and features
Position: Chief scientist-collaborator
Donor: Georgian Technical University
Leader Organization: The Institute of Constructions, Special Systems and Engineering Support
Start | End Date: 2015-01-03 - 2015-12-31

Name of the project/grant: Transformable, deployable, transportable military assault tank bridge-installer
Position: Chief scientist-collaborator
Donor: Georgian Technical University
Leader Organization: The Institute of Constructions, Special Systems and Engineering Support
Start | End Date: 2014-01-01 - 2014-12-20

Name of the project/grant: Extendable reflector hanging stand
Position: Chief scientist-collaborator
Donor: Georgian Technical University
Leader Organization: The Institute of Constructions, Special Systems and Engineering Support

Start | End Date: 2013-01-15 - 2013-11-30

Name of the project/grant: Increase of the mobility and manoeuvring of assault tank bridge-lay by means of minimization 18-24 meter bridges package outer dimensions
Position: Chief scientist-collaborator
Donor: Georgian Technical University
Leader Organization: The Institute of Constructions, Special Systems and Engineering Support
Start | End Date: 2013-01-03 - 2013-12-31

Name of the project/grant: Mechanized bridge and bridge- installation device
Position: Chief scientist-collaborator
Donor: Georgian Technical University
Leader Organization: The Institute of Constructions, Special Systems and Engineering Support
Start | End Date: 2012-01-10 - 2012-12-31

Name of the project/grant: Autonomous hail protection deployable system for grapes
Position: Chief scientist-collaborator
Donor: Georgian Technical University
Leader Organization: The Institute of Constructions, Special Systems and Engineering Support
Start | End Date: 2012-01-10 - 2014-12-31

Name of the project/grant: Construction of a New Transformable Power Ring-Grant #32
Position: Project manager
Donor: Georgian Technical University
Leader Organization: The Institute of Constructions, Special Systems and Engineering Support
Start | End Date: 2010-04-01 - 2010-12-30

Name of the project/grant: Technical evaluation of large folding structures
Position: Senior research fellow
Donor: The Technical University of Munich, European Space Agency (ESA)
Leader Organization: The Institute of Constructions, Special Systems and Engineering Support
Start | End Date: 2010-01-15 - 2012-12-20

Name of the project/grant: Deployable bridge with 48m span
Position: Senior research fellow
Donor: Georgian Technical University
Leader Organization: The Institute of Constructions, Special Systems and Engineering Support

Start | End Date: 2007-01-10 - 2011-12-31

Name of the project/grant: Fast erected, disassemble, metal multi-span bridge KM-02T. Span Length 37 m. Order of the President of Georgia #101-b, 26.03.1997

Position: Senior research fellow

Donor: Georgian Technical University

Leader Organization: Institute of Space Structures

Start | End Date: 1997-04-01 - 1998-12-20

Name of the project/grant: First Georgian space object

Position: Senior research fellow

Donor: Georgian Technical University

Leader Organization: Institute of Space Structures

Start | End Date: 1996-01-10 - 1999-07-31

Scientific Productivity

Scopus

Cited Index: 20

H Index: 2

Web of science

Cited Index: 11

H Index: 2

Google scholar

Cited Index: 24

H Index: 3

Leadership of educational programs

1. Construction art course for the military(syllabus) - doctoral degree;

Conference, Symposium, Award

- 2006-03-03 - Earth & Space, League City/Houston, Texas, USA. A new design variant of the large deployable space reflector.
- 2009-10-14 - International Scientific Conference – Advanced Lightweight Structures and Reflector Antennas, European Space Agency, Technische Universitaet Muenchen, Georgian Technical University , 14-16 October 2009, Tbilisi, Georgia. New types of high-precision de
- 2009-10-15 - International Scientific Conference – Advanced Lightweight Structures and Reflector Antennas, European Space Agency, Technische Universitaet Muenchen, Georgian Technical University, 14-16 October 2009, Tbilisi, Georgia. Transformable rod shell's surfa
- 2009-10-16 - International Scientific Conference – Advanced Lightweight Structures and Reflector Antennas, European Space Agency, Technische Universitaet Muenchen, Georgian Technical

University, 14-16 October 2009, Tbilisi, Georgia. Structure and kinematical syntheses

- 2010-10-07 - International Scientific Conference, 32th ESA Antenna Workshop on Antennas for Space Applications - From technologies to Architectures. 5-8 October 2010, ESA/ESTEC, Noordwijk, The Netherlands. Spatial double conical ring-shaped reflector concepts for space
- 2012-10-02 - International Scientific Conference, Workshop on Large Deployable Antennas. 2-3 October 2012, ESA/ESTEC, Noordwijk, The Netherlands. Theoretical and experimental study of load-bearing deploying ring designed by double pantograph principle and of reflector
- 2014-10-03 - International Scientific Conference - Advanced Lightweight Structures and Reflector Antennas, European Space Agency, Technische Universität München, Georgian Technical University, 1-3 October 2014, Tbilisi, Georgia. Erection cycle of deployable space
- 2016-11-16 - International Scientific Conference, 37th ESA Antenna Workshop. 15-17 November 2016, ESA/ESTEC, Noordwijk, The Netherlands. Different scheme of reflective display attachment of deployable space reflector flexible center with V-folded ring.
- 2017-12-07 - 2017 National Accelerated Bridge Construction Conference Florida International University, Miami, Florida, USA, December 7-8, 2017. Folding metal bridge with falcate modules - KM 02T
- 1999-08-02 - • For participation in the first Georgian space object - "Reflector" program conducted by order of the President of Georgia on August the 2-nd 1999, was awarded with the medal "For Fighting Merit".

Languages

- Georgian
- Russian
- English

Additional information

Patent

1. E. Medzmariashvili, N. Tsignadze, M. Sanikidze, N. Medzmariashvili, G. Medzmariashvili. Plant protection device against hail. National Intellectual Property Center of Georgia, Sakpatenti, Patent P 5979, Tbilisi, 2014, 9 p. (in Georgian).
2. E. Medzmariashvili, N. Tsignadze, M. Sanikidze, G. Medzmariashvili, A. Chapodze, L. Filipenko, N. Medzmariashvili. Mechanized bridge and bridge construction equipment. National Intellectual Property Center of Georgia, Sakpatenti, Patent P 6066, Tbilisi, 2014, 45 p. (in Georgian).

Manual

1. Metal structures. General course: manual for students of higher technical schools / Mamuka Sanikidze, Nodar Kitadze, Giorgi Medzmariashvili, Gizo Fartskhaladze, Temur Kikava.; Edited by M. Sanikidze. - Tbilisi, LTD "Smarty", 2017 - 338 pp., ill. (in Georgian).

- **For participation in the first Georgian space object - "Reflector" program conducted by order of the President of Georgia on August the 2-nd 1999, was awarded with the medal "For Fighting Merit".**
- **Awarded the rank of Major of the Georgian Armed Forces, 2003.**
- I am the chairman of the Scientific Council of the Institute of Buildings, Special Systems and Engineering Support of STU.
- I am a member/chairman of the Doctoral Dissertation Board of the Faculty of Civil Engineering of STU in Military Engineering.