Michael Kitaevich

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Education

Georgian Technical University **Tbilisi, Georgia**
BA in Biomedical Engineering Expected: May, 2019
GPA: 4.00/4.00
Relevant Coursework: Mathematics, Discrete Mathematics, Physics, Biophysics, Biomechanics, Engineering Computer Graphics, Information Technologies, Basis of Bioinstrumentation, Electrophysiology, Biostatistics, Microprocessor Medical Systems, Artificial Organs, Radiological Devices, Telemedicine, Biomedical Transducers

YU University **New York, NY**
Visiting Student; Independent Coursework in Economics and Computer Science 2012-2013
Relevant Coursework: Calculus, Computer hardware, Introduction to computer object-oriented languages ,C Sharp, Macro and Micro Economy, ESL, Art History and Painting

Select Honors and Awards

Fellowship, Institute of Neuroscience and Medicine, Forschungszentrum JülichGermany31.10-20.11.2016
Fellowship, Institute of Neuroscience and Medicine, Forschungszentrum Jülich Germany10.04-22.05.2016
Deans List, All Semesters 2014-2017
Certificate, "Radiation Medicine in the 21st Century: Problems and Solutions" March, 2016
Certificate, "Medical Physics" in cooperation with Forschungszentrum JülichGeorgia, 2015
Full academic scholarship, YUUniversity 2012-2013
Participant in NASA Worlds Robotics Competition Atlanta, USA 2011
Winner, FIRST Robotic Competition Israel, 2010
Invited Participant, Modern Mathematics Seminar for High School Students Weizmann University Israel, 2009
Winner, regional competition in mathematics Georgia, 2008
First place winner, national competition for juniors in badminton Georgia, 2007

Select Work and Research Experience

1.**Visiting Research Fellow**, *Institute of Neuroscience and Medicine,* Jülich, Germany 31.10-20.11.2016
Collaborated on the project "Diffusion MRI", learned the diffusion imaging technique, successfully implemented the spin echo sequence with a gradient strength dependent on the adjustable b-value.

2.**Visiting Research Fellow**, *Institute of Neuroscience and Medicine* Jülich, Germany 10.04-22.05.2016
Researched "NMR in the Earth's magnetic field ", introduced the Sequence Development techniques for Magnetic Resonance Imaging (MRI).Edited and modified *Gradient Echo sequence* to a *Spin Echo*sequence; obtained a successful unit test and ran it on the 3TSiemens MAGNETOM scanner.

3. **Laboratory Assistant, Biomedical Engineering Department, GTU** Tbilisi, Georgia 2014 - present
- Assisting professor with laboratory sessions for students.
- Presenting various projects in fundamental bio-med.
- Practical guidance in the heart rate/blood pressure monitoring units usage.
- Practical guidance and experience in the Fluke Biomedical devices such as Patient Simulator; Defibrillator, Electrosurgery, and Gas Flow analyzers

Academic Conferences and Talks

Open83-th international conference for students Tbilisi, Georgia, 2015

- Presented self-initiated research project “Energy & ATP, ADP Cycle”
- Presented developed windows application - “Heart Risk - The CVD risk determination program”

Skills

Computer Usage: Microsoft Office Word, Excel, PowerPoint.
Computer Languages: Pascal, Matlab, VB and C++, LabView.
Languages: Fluent in Russian, English and Hebrew.
Good command in Georgian.