Zacharias George

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Education:

Ph.D. Carnegie Mellon University, Pittsburgh – Electrical and Computer Engineering, 2014 (and

(anticipated)

M.S. Carnegie Mellon University, Pittsburgh – Electrical and Computer Engineering, 2010

GPA: 3.6/4.0

B.S. SRM University, India – Electrical and Electronics Engineering, 2009

GPA: 8.6/10.0

Research Experience:

Graduate Student Researcher, Carnegie Mellon University, Pittsburgh, 2010 – present Research assistant with Dr. David Ricketts and Dr. James Bain, working on designing, modeling and fabricating Atomic Force Microscopes for high frequency AC excitation and measurements

Student Researcher, SRM University, Chennai, India, 2008-9

Designed and created a prototype for fault testing in analog, digital and mixed ICs using a Restricted coulomb energy neural network.

Teaching Experience:

Teaching Assistant, Carnegie Mellon University, Pittsburgh, 2010, 2011 18605 – Engineering in Science and Engineering. Graduate level.

Projects and Contributions:

Metal-Insulator-Metal Junctions, 2011 – Aided in manufacturing MIM junctions

RF Combiners, 2011 – Aided with designing the process flow and manufacture of circuit boards for high frequency power combiners

Spin-torque Oscillators, 2010, 11 – Performed measurements and studied interactions between point-contact STOs, specifically, angular and field dependencies.

Silicon nanowires, 2010 – Designed and fabricated silicon nanowire transistor. Tested them to study their characteristics and compare them with those of conventional transistors.

Wireless energy transfer for VAD systems, 2009 – Adapted wireless energy transfer techniques to power Ventricular Assist Devices.

Academic Service:

M.S. Advisory Council, 2010 – Founding member and Secretary of the M.S. Advisory Council, whose chief function was to provide advisory support to incoming International student at the Master's level.

The Tartan, 2009-10 – Weekly columnist for student-run school newspaper on 'How Things Work'.