

Nathaniel James Killian

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Education	Washington University, Saint Louis, Missouri	Fall 2003 – spring 2007
	<ul style="list-style-type: none">♦ Magna cum laude♦ Cumulative GPA: 3.85	
	Bachelor of Science in Biomedical Engineering	Graduated: May 2007

	<ul style="list-style-type: none">♦ Bioelectrical systems track♦ Mathematics minor	
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	Mexico Senior High School, Mexico, Missouri	Graduated: May 2003
	<ul style="list-style-type: none">♦ Valedictorian	

Research Experience	Graduate research in lab of Rob Butera, PhD	
	Georgia Institute of Technology, Department of Biomedical Engineering (spring 2007 – present)	
	<ul style="list-style-type: none">♦ Modeling high-frequency conduction block of unmyelinated axons	
	Graduate research in lab of Steve M. Potter, PhD	
	Georgia Institute of Technology, Department of Biomedical Engineering (summer 2007 – present)	
	<ul style="list-style-type: none">♦ Developed neural cultures with proprioceptive feedback for smart limb prostheses♦ Presented progress at 2008 Georgia Tech Grad Student Symposium and 2008 Southeast Nerve Net	

	Undergraduate research in lab of Dennis L. Barbour, MD, PhD	
	Washington University, Department of Biomedical Engineering (fall 2005 – summer 2007)	
	<ul style="list-style-type: none">♦ Predicted improved speech intelligibility in background noise through a biologically-inspired algorithm that emphasizes signal power at intermediate local spectral contrast levels♦ Algorithm is in the patent process and, following the success of studies in cochlear implantees, it may be employed in cochlear implants♦ Presented results at the 2006 National Biomedical Engineering Society conference♦ Presented results at the 2006 Washington University Undergraduate Research Symposium♦ Results were also presented at the 2006 & 2007 National Society for Neuroscience conferences and the 2007 Association for Research in Otolaryngology conference	

	HHMI Summer Scholars Program at Washington University Medical School	
	Neuroimaging Laboratories, Mentor: Kevin Black, MD (June – August 2003)	
	<ul style="list-style-type: none">♦ Found no statistically significant brain volume differences in 3D MRI between patients with adult-onset primary focal dystonia and normals using statistical parametric mapping	

	Earthwatch Institute Research Program, Andros Island, Bahamas (summer 2002)	
	<ul style="list-style-type: none">♦ Conducted assays of sea sponge secondary metabolites in search of possible cancer-fighting agents	

Teaching & Work Experience	Teaching Assistant for Quantitative Physiology (BME 301A) Course (fall 2006)	
	<ul style="list-style-type: none">♦ Assisted with physical labs, graded lab reports and homework, and held office hours	
	Commercial Refrigerator Assembly, True Manufacturing, Mexico, MO (June – August 2004)	

	Pharmacy Associate, Wal-Mart, Mexico, MO (September 2002 – April 2003)	
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Awards & Honors	<ul style="list-style-type: none">♦ NSF IGERT: Hybrid Neural Microsystems Fellowship (2007 – present)♦ Member of Tau Beta Pi – engineering honor society (2006 – present)♦ Member of Sigma Xi – research honorary (2007 – present)♦ Dean's List: spring 2004, spring 2005, fall 2005, spring 2006♦ Woodward Fellowship – half-tuition merit scholarship (2003 – 2007)♦ William Tao and Associates Scholarship (2004, 2005)♦ A.P. Green Foundation Scholarship (2003 – 2007)♦ Audrain Medical Center Employees' Scholarship (2003 – 2007)♦ Missouri Bright Flight Scholarship (2003 – 2007)♦ National Merit Commendation	
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Activities**Leadership**

- ♦ NeuroLab Student Council member – Potter lab representative (spring 2008)
- ♦ Served as SCF Representative (2 sem), Vice President (1 sem), and President (1 sem) for club tennis
- ♦ Leadershape 2005: One-week-long summer program – gained valuable leadership skills

Service

- ♦ Spoke to students at South Atlanta High School to promote brain awareness (spring 2008)
- ♦ Prospective graduate student mentor (spring 2008)
- ♦ Freshman orientation mentor (fall 2006)
- ♦ WU Campus-YMCA Catalyst after-school science program for area school children (spring 2005)
- ♦ Saint Louis Area Dance Marathon: Children’s Miracle Network fundraiser participant (2004, 2005)
- ♦ Special Olympics fundraiser participant (spring 2005)

Sports

- ♦ Club tennis (2003 – 2007)
- ♦ Intramural sports: tennis, frisbee, softball, football (2003 – present)