

Nigel S. Michki

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Volunteer Experience:

St. Stephen's RC Church-

September 2010- March 2012

- Taught Old Testament doctrine and literature to 6th grade children.

Honors Colloquium-

September 2012-November 2012

- During this service-learning class, worked with West Side Ministries on housing projects, doing primarily basic work (sanding, painting, etc.).
- Also worked with House of Grace after-school program teaching underprivileged children on the west side of Buffalo, NY, academic as well as social justice skills.

Primer Project-

March 2013-Present

- Founder of the primer (prih-mer) project, which aims to coordinate volunteer support to write and translate math guides for NYS high school mathematics courses for students who speak high need languages (Karen, Somali, Nepali, etc.).

Community Activities:

GICSD Capital Project Board-

March 2011- November 2011

- Member of the board responsible for assembling a bond issue for our school district. Both portions of the \$60 million project passed. PR strategies I suggested were utilized by the district.

Alcohol Prevention Town Hall Meeting-

February 2012-May 2012

- Member of the committee which planned and ran a town hall meeting on April 24th, 2012, which was aimed to provide an overview of the under-age drinking problems present in the community.

HonoraBull Team-

February 2013-Present

- Member of student-run philanthropy group, aimed and educating current UB Honors scholars on the importance of 'paying it forward' to their alma-mater.

Academics:

University at Buffalo Honors College-

August 2012- Present

- Pursuing Bachelors degree in Computational Physics.
- At the end of the 2013 summer session: 81 credit hours, 4.0/4.0 G.P.A.

Research:

University of Rochester-

February 2011- June 2012

- Conducted research project on the physical properties of bassoon reeds, devising methods of mapping tensile strength of reeds experimentally, with Dr. Mark Bocko.

- Presently determining the effectiveness of various electrostatic alignment cells at orienting liquid crystals and proteins using THz Time Domain Spectroscopy; maximum alignment will allow us to probe the vibrational modes of proteins, which are thought to be linked to their function.

Awards:

<i>NYSSMA Conference All-State Mixed Choir-</i>	<i>December 2011</i>
<i>Rensselaer Polytechnic Institute Medalist Award-</i>	<i>April 2011</i>
<i>Presidential Scholarship: SUNY at Buffalo-</i>	<i>February 2012</i>
<i>School Administrators Association of NYS Scholarship: District 12-</i>	<i>June 2012</i>
<i>Grand Island Community Choral Scholarship-</i>	<i>June 2012</i>

Work Experience:

St. Stephen's RC Church- *March 2009-August 2012*

- Sacristan responsible for preparing the church for masses, which involved cleaning, moving furniture, replacing/organizing books, and aiding with other tasks as needed.

Gifted Math Program- *August 2013-Present*

- Mentor/grader for 60 seventh-grade students who are being taught logic and set theory at UB.
- Responsible for managing classroom behavior, producing answer keys for homeworks, grading homeworks, tutoring as-needed.

Computer Skills:

Languages: C, Octave, Java, LaTeX.

Operating Systems: Linux (Arch, Ubuntu), Windows, Mac OSX.

Programs: Mathematica, Eclipse, Vim, Git, Wordpress, Inkscape, GIMP, Matlab, Maple.

Professional Organizations:

American Physical Society- *October 2012- Present*

Languages:

French (not fluent).

Other Relevant Skills/Information:

Strong proponent of open-source software use in personal and professional settings.

Regularly tutors in the following subjects: differential calculus, physics, computer programming/logic, NYS Regents geometry/algebra.

GitHub repository: <https://github.com/nigeil/>