

# Jeffrey Hafner

PHYSICIST & PHYSICS TEACHER

9129 Main St, Westernville NY 13486

☎ +1-315-532-0278 | ✉ jeffrey.p.hafner@gmail.com | 🏠 jphafner.github.io | 📷 jphafner | 🌐 jphafner

I am a geek, a skeptic and I wear bowties for fun. I have been a physics teacher for two years, and been a Unix Engineer for two years, and was described on my 2017 performance review as highly innovative. This is due to my boundless energy, that seeks out a solution to everything.

## Experience

### Unix Linux Systems Engineer

IPSOFT INC

New York, NY

Aug 2016–Mar 2018

- Manage IT infrastructure of high profile clients
- Monitored client environments and developed automation to resolve issue
- Provided automation to clients using Ansible, for example patching
- Had commendable communication with key clients, McKesson

### Physics Teacher

MASTERS SCHOOL

Dobbs Ferry, NY

2015–2016

- Teaching 11<sup>th</sup> grade and AP Physics B Mechanics
- An example lesson plan and lab report template used
- Utilized a unique assessment system that allowed infinite redos

### Physics Teacher

BALTIMORE CITY PUBLIC SCHOOLS

Baltimore, MD

2014–2015

- Teaching physics first at Mervo
- Utilized a unique assessment system that allowed infinite redos

## Education

### University at Buffalo

PH.D IN PHYSICS

Buffalo, NY

Aug. 2006 – Feb. 2012

### Andrews University

B.S./M.S. IN BIOPHYSICS AND MATHEMATICAL STUDIES

Berrien Springs, MI

Aug. 2001 – Aug. 2006

## Projects

### physicsAMC

PHYSICS TEACHER

multiple locations

2014–2016

- A comprehensive physics exam bank that utilizes an lpeg parser for question selection.
- This project enabled me to use an infinite redo policy on all assessments, without punishment, which was an important motivation for this project, and created some of my favorite memories.
- this project utilizes  $\text{\LaTeX}$ , lua, lpeg, and tikz for graphics, and contains more than a 100,000 lines of code.
- sample-exam

## Publications

2009	<b>Approximate normal mode analysis based on vibrational subsystem analysis with high accuracy and efficiency</b> , Journal of Chemical Physics	Hafner J. & Zheng W.
2010	<b>Optimal modeling of atomic fluctuations in protein crystal structures for weak crystal contact interactions</b> , Journal of Chemical Physics	Hafner J. & Zheng W.
2011	<b>All-atom modeling of anisotropic atomic fluctuations in protein crystal structures</b> , Journal of Chemical Physics	Hafner J. & Zheng W.