Jeffrey **Hafner**

Physicist & Physics Teacher

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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

New York, NY

IPsoft Inc

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

Dobbs Ferry, NY

Masters School

2015–2016

- Teaching 11th 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, MD

Baltimore City Public Schools

2014–2015

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

Education

University at Buffalo

Buffalo, NY

Ph.D in Physics

Aug. 2006 – Feb. 2012

Andrews University

Berrien Springs, MI

B.S./M.S. in Biophysics and Mathematical Studies

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 LaTeX, lua, lpeg, and tikz for graphics, and contains more than a 100,000 lines of code.
- sample-exam

Publications

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