Peter M. Solfest
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Mon 4th May, 2015

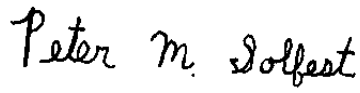
To whom it may concern,

I have recently graduated with a master's degree from Michigan Tech in applied mathematics after having completed a B.S. in physics and mathematics. Upon achieving this, I entered a Ph.D. program at the University of MN, but have since decided that this degree program did not fit my long term interests and have decided to employ my skills rather than continue to build them.

I am interested in positions for which I could contribute utilizing my entire educational background. Numerical methods have been one of my primary interest in my studies as a graduate, which would be leveraged to contribute to the development and usage of efficient software in a variety of languages (especially C, python, and matlab). This has also provided the experience of writing technical reports allowing me to communicate these methods to a technical audience. Teaching throughout my education has honed these communication skills for broader audiences with less of a technical background. Furthermore, my undergraduate degree in physics has given me a solid understanding of the physical processes which lie behind many of the software applications.

Thus I believe my educational background in both mathematics and physics would allow me to approach positions with a not just the technical skills required but a holistic approach, while my teaching and educational experiences would allow me to effectively communication with all audiences. Thank you for you consideration and time, and hope to hear from you soon.

Sincerely,



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Summary

Recent graduate with a strong background in applied and computational mathematics, and a solid understanding of physics. Pursuing a career which leverages these skills to develop and improve mathematical models and software utilizing numeric techniques.

Education

- **University of Minnesota - Twin Cities** — Minneapolis, MN
  Ph.D. Scientific Computation; GPA: 4.00 (no longer pursuing) — *Aug. 2014 – Mar. 2015*
  - Advisor: Dr. Yousef Saad
- **Michigan Technological University** — Houghton, MI
  M.S. Applied Mathematics; GPA: 4.00 — *Aug. 2012 – June 2014*
  - Advisor: Dr. Jiguang Sun
- **Michigan Technological University** — Houghton, MI
  B.S. in Physics and Applied/Computational Mathematics; GPA:3.94 — *Aug. 2008 – Apr. 2012*
  - Graduated Summa Cum Laude

Research Experience

- **Senior Research (BS degree)** — Houghton, MI
  Computational analysis of spectra arising from Mo doped Tungstenite — *2011 - 2012*
  - Advisor: Dr. John Jaszczak
- **Lunar and Planetary Space Academy** — NASA - Goddard, MD
  Instrumentation development for space based Gamma Ray Spectroscopy — *Summer 2011*
  - Mentor: Dr. Ann Parsons
- **Yap Research Group** — Michigan Tech
  Boron Nitride Nanotube (BNNT) synthesis and application — *Summer 2010*

Work Experience

- **Calculus Instructor** — Michigan Tech Dept. of Mathematics
  Calculus 1 and 2 — *Jan 2013 – June 2014 (4 semesters)*
  - Responsibilities: Lecture, Grade, lead study sessions, write exams
  - Calc 1 (Spring 2013 - Spring 2014), Calc 2 (Summer 2014)
- **Lab TA** — Michigan Tech
  Introductory Mechanics, Electronics, Mathematica — *Aug 2009 – Apr. 2012*
  - Responsibilities: grade labs; lead lab sections; assist students with Mathematica
  - Mathlab (Aug 2009 - Apr 2011), Mechanics (Aug 2010 - Dec 2011), Electronics (Jan 2012 - May 2012)

Skills

- **Software:** GNU Octave, Linux, LaTeX, Mathematica, git, BASH
- **Programming Languages:** MATLAB, C, Java, Python

Achievements

- **Outstanding Teaching Award** — Michigan Tech Dept. of Mathematics
  Graduate Level — *2014*
- **Co-Recipient of Ian W. Shepherd award** — Michigan Tech Dept. of Pysics
  "presented each year to the most outstanding physics graduate(s)" — *2012*
- **Departmental Scholar** — Michigan Tech Dept. of Pysics — *2011*

Extra Curricular Activities

- **Broomball**
  Player (2009 - 2015) and Team Captain (2011-2014)
- **SPS Member**
  Public outreach explaining physics concepts to elementary students