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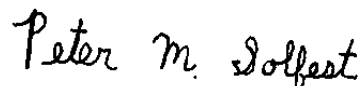email: pmsolfest@gmail.com

Fri 17th Jul, 2015

To whom it may concern,

I have recently graduated with a master's degree from Michigan Tech in applied mathematics after completing a B.S. in physics and mathematics. I would be a great fit at Batelle given my educational background.

I will contribute to Batelle utilizing my entire educational background. My B.S. and M.S. in applied mathematics has provided me with extensive experience developing and implementing numerical algorithms in Matlab and C. Furthermore my B.S. in physics has provided me a broad background in the physics underlying many of the useful applications for the mathematical models. My education and personal experience has further provided me with extensive experience working in a Linux environment and scripting jobs using BASH. Furthermore I find tackling new problems invigorating, and have participated in programming AIs in the annual BonzAI Brawl using JAVA and have created particle simulations in my free time using Python among other projects. Beyond my technical qualifications, I have had a life long fascination with pushing the boundaries of humanity's capabilities - especially through developing new algorithms for novel applications.

My educational background in mathematics will allow me to approach this position with the technical skills required while my undergraduate in physics will provide a strong foundation for the scientific principles necessary to understand the data. Furthermore, having taught throughout my education along with compiling reports throughout my education will allow me to effectively communicate and collaborate with a wide variety of professionals. Thank you for your time and consideration, and hope to hear from you soon.

Sincerely,

Peter M. Solfest

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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 while continuing to develop them.

Education

- **Michigan Technological University** — Houghton, MI
  M.S. in 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

- **Research Assistant** — University of Minnesota
  Dept. of Computer Science — *July 2014– Mar. 2015*
  – Advisor: Dr. Yousef Saad
  – Responsibilities: software development, prepare progress reports

- **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, BASH, Mathematica, git

- **Programming Languages:** MATLAB, C, Python, Java

Achievements

- **Outstanding Teaching Award** — Michigan Tech Dept. of Mathematics
  Graduate Level — *2014*

- **Co-Recipient of Ian W. Shepherd award** — Michigan Tech Dept. of Physics
  "presented each year to the most outstanding physics graduate(s)" — *2012*

- **Departmental Scholar** — Michigan Tech Dept. of Physics
  2011