

12885 NW Westlawn Terrace
Portland, Oregon, 97229

Joe Shields

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EDUCATION

- Portland State University **Sep. 2013 – Jun. 2016**
B.S. Mechanical Engineering, Maseeh College of Engineering and Computer Science
B.S. Physics, College of Liberal Arts and Sciences
3.65 GPA
- Portland Community College **Sep. 2008 – Jun. 2010, Sep. 2011 – Sep. 2014**
3.0 GPA

LANGUAGES AND TECHNOLOGIES

- R, MATLAB, C++, Bash, Vim, SolidWorks, Abaqus, AutoCAD, GIMP, Finale
- \LaTeX , Microsoft Office, Libre Office, Google Docs, etc.
- Ubuntu, Windows

PROJECTS AND AWARDS

- Director of Airframe Design and Manufacture **Dec. 2015 – Sep. 2016**
Created an open-hardware carbon fiber rocket airframe for the Portland State Aerospace Society
Managed interdisciplinary projects among students and professionals
Published and presented a conference paper on the project for AIAA Space (pending Sep. 2016)
- PCC Art Beat competition **May 2012**
Composed and conducted an original piece for about 30 members
Earned 1st place in the composition competition

SKILLS AND INTERESTS

- Classical field theory
- Mathematical physics
- Statistics and reliability
- Thermal and fluid analysis
- Interdisciplinary research and engineering
- Music theory
- Leading small groups
- Composites manufacturing methods

REFERENCES

- Andrew Greenberg, PhD adg@ece.pdx.edu
- Erik Sánchez, PhD esanchez@pdx.edu
- Erin Schmidt esch2@pdx.edu