

12885 NW Westlawn Terrace  
Portland, Oregon, 97229

Joe Shields

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## EDUCATION

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- 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 & Sciences  
3.65 GPA
- Portland Community College **Sep. 2008 – Jun. 2010, Sep. 2011 – Sep. 2014**  
3.0 GPA

## LANGUAGES AND TECHNOLOGIES

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

## PROJECTS AND AWARDS

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- 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 1<sup>st</sup> place in the composition competition

## SKILLS AND INTERESTS

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- 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

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