

# MAX GOULD

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## OBJECTIVE

Master's graduate seeking a full-time engineering position working with aerospace systems.  
U.S. Citizen. Willing to relocate.

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## EDUCATION

<b>M.S.</b> - Aerospace Engineering Specialization: Fluid Mechanics	<b>University of California, Los Angeles (UCLA)</b>	GPA – 3.86	2013
<b>B.A.</b> - Physics	<b>Reed College</b>	GPA – 3.47	2012

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## TECHNICAL SKILLS

**Scientific software:** MathWorks MATLAB, Wolfram Mathematica, COMSOL Multiphysics, LabVIEW  
**Programming:** Python, Fortran, HTML, Version Control, Elliptical Grid Generation, Finite Volume/Difference Methods  
**Drafting software:** AutoCAD, Google SketchUp  
**Office software:** Microsoft Office (Word, Excel, Powerpoint), Open Office, LaTeX (TeXworks, MiKTeX, MacTeX)  
**Operating systems:** Windows, Macintosh, Ubuntu Linux

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## EXPERIENCE

**National Institute of Standards and Technology (NIST) – Summer Researcher** Summer 2012  
Conducted verification studies of the computational fluid dynamics (CFD) used in the Fire Dynamics Simulator (FDS) software as a member of the Engineered Fire Safety Group.

- Responsible for 2D vortex study demonstrating the second-order accuracy of the FDS transport algorithm. Authored associated section in the FDS 6 Verification Guide.
- Confirmed deficiencies in current boundary handling methods. Formally presented results to the Fire Research Division.

**Reed College – Undergraduate Thesis Project** 2011 – 2012  
Studied the effects of shear in a thin fluid layer, turbulent regimes in Kolmogorov shear flow, and the effects of certain obstructions on the development of these regimes.

**Miles Yanick & Company – Architecture Intern** Summers 2003 – 2008  
Individually completed project for local bookstore including site analysis, permit requisition, and draftsmanship of final construction documents. Responsible for conceptual design development of local office building and the Olympic Center for Music. Worked directly with clients and city officials, contributed to numerous projects, and assisted with marketing efforts.

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## OTHER PURSUITS

**Free Geek Volunteer ([www.freegeek.org](http://www.freegeek.org))** 2011 – 2012  
Diagnosed hardware failures on old computers. Assembled refurbished computers with recycled components. Quality controlled desktops and laptops prior to sale or donation.

**Assistant Martial Arts Instructor** 2006 – 2007  
Individually taught and assisted in the instruction of classes in Japanese swordsmanship.

## Traveling Experience

- Studied architecture for a semester in Florence, Italy
- Lived in New Zealand for a year in 11th grade.
- Studied Japanese for 4 years and traveled to Japan 3 times.
- Traveled around both Greece and Italy studying ancient Greek and Roman culture.