

# Remy Goldschmidt




## Education

2014–2017 **Bachelor of Science in Aerospace Engineering**, *University of Illinois at Urbana-Champaign*.  
Majoring in aerospace engineering, minoring in computer science

## Work Experience




Summer 2015 **Research Intern**, *UIUC Formal Systems Laboratory*.

Reference: [Dr. Grigore Rosu](#)

- Worked on software for executable semantics using rewrite logic
- Wrote Java to generate OCaml interpreters from semantic specifications
-  | Java |  19062 |  15342

2013–2014 **Research Intern**, *Columbia University Applied Physics / Applied Math Department*.

Reference: [Dr. I. C. Noyan](#)





















- Designed and built a sealed standing-wave thermoacoustic refrigerator
- Studied the effect of waveform input on efficiency in thermoacoustics
-  | Haskell |  4850 |  2718

## Activities

2014– **Club**, *University of Illinois ACM SIGPLAN*, Founder and chair.

Group for discussion of programming language theory and related subjects

2011– **Hobby**, *Open Source Programming*.

	<a href="#">k</a>	Java	 185	 19062	 15342
	<a href="#">ThomasEngine</a>	Racket	 60	 4142	 2023
	<a href="#">ThermoCalc</a>	Haskell	 59	 4850	 2718
	<a href="#">xprintidle-ng</a>	C	 44	 4308	 12428
	<a href="#">icfp-2015</a>	Haskell	 36	 1381	 1220
	<a href="#">nixpkgs</a>	Nix	 31	 568	 36

2014– **Hobby**, *NixOS package maintainer*.

Maintainer for [kframework](#), [g-wrap](#), and [guile-gnome](#)

2008–2011 **Hobby**, *Model Rocketry*.

- Constructed three high-power model rockets using composite materials
- Designed GPS-logging avionics for these rockets

## Skills

Languages English (native), Latin (5 yrs)  
Programming Haskell (5 yrs), Java, C/C++, Clojure, Racket, OCaml, Python, MATLAB, Mathematica  
Software Linux (9 yrs), git, GNU toolchain, ROOT, Geant4  
CAD SolidWorks, Siemens NX, EAGLE  
Other Emacs,  $\text{\LaTeX}$ , NixOS

## Education

### Courses taken

AE 100	Introduction to Aerospace Engineering
AE 199	Aerospace Computer-Aided Design
AE 202	Aerospace Flight Mechanics
CS 125	Introduction to Computer Science
CS 422	Programming Language Design
ECE 205/206	Electronic Circuits + Lab
MATH 221/231/241	Calculus I/II/III
MATH 225	Introduction to Matrix Theory
ME 300	Thermodynamics
MSE 280	Engineering Materials
PHYS 211/212	Physics: Mechanics / E&M
STAT 100/200	Statistics I/II
TAM 210/212	Statics / Dynamics

### Fall 2015 courses

AE 311	Incompressible Flow
AE 321	Mechanics of Aerospace Structures
AE 352	Aerospace Dynamical Systems
IE 300	Analysis of Data

## Other Courses

### Columbia Science Honors Program

Relativity and Quantum Mechanics	Fall	2012
Computer Programming in Java	Spring	2012
Mathematical Methods in the Physical Sciences	Spring	2013
Astronomy and Astrophysics	Fall	2013
Group Theory	Spring	2014