

# Daniel Windham

Cambridge, MA · (650) 815-9660 · dewindham@gmail.com · website: tenedor.github.io/me

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## Harvard College '16

- Physics and computer science candidate (coursework: 28% CS, 21% physics, 14% math)
  - Took 2012-2013 academic year off to work on Athena, an ed-tech startup
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## Tangible Media Group, MIT Media Lab

February – September 2015

Undergraduate Researcher, Lead Software Developer

- Developed software architecture for coupling static objects to dynamic shape displays and built seven demo applications. Built another half-dozen applications exploring shape-recording, touch-sensing, force-feedback, and proximity-sensing.
  - Rebuilt the entire shape display software stack, making it cross-platform and globally organized ([github.com/tmggit/omniFORM](https://github.com/tmggit/omniFORM)). Taught the codebase to four of TMG's grad students who have since built 20+ applications on it and taught it to others.
  - Published papers at UIST 2015 and CHI 2016; CHI paper won Honorable Mention award.
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## Viewpoints Research Institute

June – August 2015

Research Consultant / Intern

- Explored visual representations of computer program execution in connection with prototyping domain-specific languages. Side project during full-time work at TMG.
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## Aspuru-Guzik Quantum Chemistry Lab, Harvard University

June – August 2014

Undergraduate Researcher, PRISE Fellow

- Wrote software to machine learn corrections to DFT band gap predictions. 20% gain.
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## Ness – restaurant recommendation startup, \$20MM funding

July – August 2013

Web Development Intern

- Rebuilt website's restaurant page and created group recommendations page.
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## Athena – knowledge mapping startup

June 2012 - June 2013

1<sup>st</sup> employee, Frontend Web Developer

- Designed and built frontend architecture and UI for user-editable directed graphs.
  - Built a general-purpose web media remixer with custom YouTube and Vimeo support.
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## Software Engineering – github username: tenedor

I have completed projects in C++, Javascript, Python, and C and worked with half a dozen other languages. I built a python control-flow visualizer and am writing a git tutorial.

**EE, other** – I have experience with electronics and a range of 3D fabrication technologies.

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## Community

- Organize recurrent “French Enlightenment style” salons where students give delightful and informative talks, perform poetry and music, and discuss ideas they're excited about.
  - Directed and grew high school Canned Food Drive through three years: developed solicitation program and led 2010 drive, increasing food collection 50% to 62,500 lbs.
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## Other

- Enjoy art and design; have taught classes on art history, launched Lowell House murals, and taken figure drawing and painting courses.
- AMC math competition top percentile nationally, highest score ever in my high school.
- Played tennis on undefeated NorCal varsity high school team.