Daniel Windham

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

---

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

---

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). Taught the codebase to four of TMG's grad students and supported them in developing their own applications.
- Published papers at UIST 2015 and CHI 2016; CHI paper won Honorable Mention award.

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.

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.

Ness – restaurant recommendation startup, $20MM funding   July – August 2013
Web Development Intern
- Rebuilt website's restaurant page and created group recommendations page.

Athena – knowledge mapping startup   June 2012 - June 2013
1st 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.

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.

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.

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.